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2016-17 Undergraduate Academic Catalog

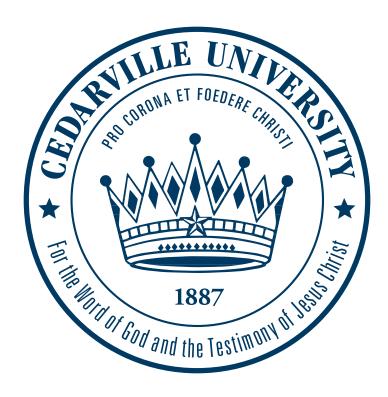


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2016–17 Academic Catalog

Home to 3,700 Christian students, Cedarville University is an accredited, Christ-centered, Baptist university of arts, sciences, professional, and graduate programs.

Established in 1887

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Introduction A Word From Our President



A Word From Our President

You will spend approximately 1,000 days on campus at Cedarville University. It is our desire that every classroom session, every classroom service, every meeting, every sporting event, every extracurricular activity will set you on a trajectory to glorify God with the remainder of your life.

As you read this catalog, you will see that Cedarville University glorifies God by providing comprehensive education consistent with biblical truth. A biblical worldview guides every course, every professor affirms and teaches by our doctrinal statement, and your Bible minor will equip you to understand and apply the Bible so that you can defend your theological beliefs.

We desire to have academic excellence with a Gospel purpose. We desire for every student to participate in an international missions trip and to discover how God wants to use your gifts for His glory. Every vocation is rooted in a biblical worldview and has an eternal purpose.

God is moving at Cedarville, and we hope that you will join us and have fun while praying for revival. We must engage culture with compassionate conviction while standing for the Word of God and the Testimony of Jesus Christ.

By faith,

Thomas White, Ph.D.

President, Cedarville University

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 students with an education that was offered within a spiritual framework. Affiliated with the Reformed Presbyterian Church, the College attracted many local students and built its first building, now known as "Founders Hall," in 1895. Soon, Cedarville attracted a growing number of students and 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. After multiple attempts at revitalization, the trustees realized the school was no longer sustainable. The College would have to find another school with which to merge, another denomination 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 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, 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 continued to flourish in every area, and by the end of his tenure in 2003, there were 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. Effective September 1, 2000, Cedarville College became Cedarville University.

William Brown took the helm of the institution in October 2003,

poised to advance it forward into the next century. He did so through an expressed focus on training students to effectively engage the culture around them by thinking critically and serving compassionately.

In 2013, William Brown concluded a decade of ministry, and Thomas White became the 10th President in July.

During the recent years the mission statement of the University was revised and updated for clarity. In keeping with its current mission statement, which states that Cedarville University is a "Christ-centered learning community equipping students for lifelong leadership and service through an education marked by excellence and grounded in biblical truth," the University has uniquely advanced liberal arts and professional programs alongside a conservative theological position. The faculty continues to be comprised solely of dedicated Christian professors who integrate the knowledge of their respective fields with key biblical perspectives.

The future looks bright for Cedarville University as it seeks God's continued blessing in this, its 128th year of service.

Profile

Home to 3,700 Christian students, Cedarville University is an accredited, Christ-centered, Baptist university of arts, sciences, professional, and graduate programs located in southwest Ohio. Since its founding in 1887, Cedarville has maintained its commitment to biblical truth and academic excellence to equip students for academic success, professional leadership, and spiritual influence. This intentional focus has earned Cedarville a national reputation as a leader in the liberal arts, health sciences, and professional programs.

Cedarville's undergraduate curriculum is built upon a liberal arts core including biblical education, communications, global studies, humanities, physical education, science and mathematics, and the social sciences. From this foundation, the University's 76 undergraduate degree programs provide concentrated study leading to one of eight baccalaureate degrees.

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

Mission

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

The University achieves its mission by accomplishing the following objectives or "portrait statements" which reflect characteristics of a Cedarville University graduate:

Glorify God

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

Think Broadly and Deeply

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

Communicate Effectively

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

Develop Academically and Professionally

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

Engage for Christ

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

Accreditation, Authorization, and Licensure

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

The University is accredited by the Higher Learning Commission (hlcommission.org). This recognition signifies that the regionally accredited. The Bachelor of Arts degree programs in educator preparation and the Master of Education degree are accredited by the National Council for the Accreditation of Teacher Education (NCATE), by the Ohio Department of Higher Education, and certified by the Association of Christian Schools International (ACSI) for the education of teachers. Teacher candidates receive their licenses from the Ohio Department of Education. The Bachelor of Science in Nursing and Master of Science in Nursing degrees are accredited by the Commission on Collegiate Nursing Education (CCNE), The Bachelor of Science degrees in mechanical, electrical, and computer engineering are each accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc. (ABET). The Bachelor of Science Computer Science degree is accredited by the Computing Accreditation Commission of ABET. 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 related fields, and the Master of Business Administration degrees are accredited by the Association of Collegiate Business Schools and Programs (ACBSP). The Bachelor of Arts in Music program, the Bachelor of Music programs, and the Bachelor of Music Education program are accredited by the National Association of Schools of Music (NASM). The Doctor of Pharmacy program has been granted Candidate status by the Accreditation Council for Pharmacy Education (ACPE). Information concerning accrediting agencies and respective accreditation requirements are available at cedarville.edu/accreditation.

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

Setting

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

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

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

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

Computer Network

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

CedarNet is a winner of the CAUSE Award for Excellence in Campus Networking. This prestigious national award recognizes colleges and universities that exemplify best practices in campus networking in higher education. CedarNet's connection to the Internet is robust, supported by dual high-speed fiber links that ensure high availability.

Access

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

To enable students to take further advantage of the network, public laboratories are conveniently open to on- and off-campus students with a total of 200 stations available. In addition to wireless access, each residence hall room has two Ethernet ports for direct connection to Cedarnet.

Benefits

Students using the network can:

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

University Student Services

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

Career Services

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

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

Introduction University Student Services

programs (such as LinkedIn), guides to major employers, and directories for graduate schools.

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

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

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

Highlights
Ranked a

Ranked as one of the top career services offices in the Ruffalo Noel-Levitz student satisfaction survey among all participating public and private institutions.

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

Counseling Services

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

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

Additionally, Counseling Services offers a mentoring program as a resource that includes faculty and staff members.

Location: SSC 163 Phone: 937-766-7855

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

Health Care and Medical Services

Student health care is provided by University Medical Services (UMS), an ambulatory student health 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. The services of UMS include physician visits and nursing appointments, physicals for athletics and ministry participation, academic physicals, laboratory services, allergy injection services, immunizations, and travel immunization services. UMS also works closely with area hospitals and specialists to coordinate referrals for students to specialty physicians and for other medical services such as radiology testing.

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

Another health care service available to students on campus is Cedarville University Emergency Medical Service (CUEMS), a volunteer EMS ambulance ministry manned by students who are nationally and state certified EMTs. CUEMS responds primarily to emergencies on campus. Also, CUEMS provides mutual aid to

the Cedarville Township and the surrounding community when needed. The students who are involved in the ministry volunteer their medical expertise to the Cedarville University family and strive to demonstrate Christ's love and compassion to their fellow students in time of need. To learn more about the ministry of CUEMS, visit the following website: **cedarville.edu/ums**. For information about how you can become an EMT, visit **cedarville.edu/EMSEducation**.

Housing

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

Approximately 80 percent of the student body lives on campus in University housing. Men and women are housed in separate residence halls. All offer convenient laundry and lounge areas and house just two students per room. Each room is fully furnished. Phone jacks are not provided, so students who want phone service must provide their own cell phone. The residence halls have free wireless access.

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

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

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

New Student Orientation

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

Vehicles

There are no restrictions on vehicle registration; 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 **cedarville.edu/campussafety**.



Introduction Ministry Opportunities

Ministry Opportunities

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

Chapel

It has been said that the heartbeat of Cedarville University is the daily chapel service held in the newly remodeled James T. Jeremiah Chapel. At 10 a.m. each morning, the auditorium comes alive as the University gathers to worship, pray, hear from God's Word, and contemplate relevant issues facing the body of Christ today. Chapel is a place for students to grow and connect as speakers inspire and challenge the University family. Many students participate in one of the many chapel bands that lead worship each day. Alumni often mention chapel as one of the things they miss most after graduation.

Church Relations

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

- Pastor Appreciations Students, faculty, and staff are encouraged to express appreciation for their pastors who have ministered to them. Personal notes and postcards are used in this effort.
- Annual Conferences Church Relations sponsors or supports Cedarville conferences designed to equip and strengthen local churches, such as the annual Pastors Conference, Worship 4:24, Bioethics Conference, and other events, addressing a variety of issues facing the church.
- Regional and National Conferences Cedarville staff members represent the University to pastors and churches at a number of regional and national conferences.

Discipleship Ministries

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

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

Fit To Be Tied is another strategic ministry specifically targeting seriously dating, engaged, or newly married couples. Student couples meet regularly with their mentor couple throughout the school year as well as attending five relevant seminars focused on building Christ-honoring marriages.

Global Outreach — Local

Students reach out to their neighbors through local churches, community outreach teams, and spring break teams using their resources, talents, and time to live out the Gospel while serving others. Cedarville University is located in a region known as the

Miami Valley. The cities of Columbus, Dayton, and Cincinnati are close by, as well as hundreds of smaller communities. Dozens of student-led teams serve faithfully in these local communities and churches each week.

- Local Church Teams students serve alongside church members in many areas such as worship/music, youth ministries, children's ministries, Awana, nursery, etc.
- Local Outreach Teams students serve in various agencies and faith-based organizations including crisis pregnancy/ abstinence and counseling ministries, evangelism/urban outreach, English tutoring, youth and children's ministries, jail/ detention centers, hospitals, nursing home/elderly visitation, special needs, etc.
- Spring Break Teams students have the opportunity to join a weeklong team that travels to serve with ministries such as the Inner City Impact (Chicago), Angel House (Dearborn), Shepherds Ministries (Wisconsin), Service Over Self (Memphis), and Cedarville Urban Partnership (Atlantic City).

Global Outreach — International

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

Since 1971, over 6,000 teams have served in 91 countries. Each year opportunities for service include medical, computer, engineering, sports, orphan care, teaching English as a second language, music, and physical labor. Every student is encouraged to minister cross-culturally before graduation. Contact Global Outreach for details.

HeartSong Ministries

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

Selecting a Ministry

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

cedarville.edu/serve

Student Life

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

Spiritual Emphasis

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

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

Community Covenant

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

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

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

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

Cocurricular Opportunities

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

- Debate Communication, page 74
- Engineering Competitions Engineering and Computer Science, page 93
- Forensics Communication, page 74
- Math Club Science and Mathematics, page 169
- Student Radio Station Communication, page 75
- Theatre Art, Design, and Theatre, page 41

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, 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, or one of the many small ensembles directed by Christian Ministries.

Intercollegiate Athletics

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

Students interested in participating on an intercollegiate athletic team or cheerleading should visit the Cedarville University Athletics website (**yellowjackets.cedarville.edu**). Click the team sport you are interested in and fill out a prospective athlete questionnaire.

Campus Recreation

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

Student Life Programs

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

Leadership Opportunities

Student Life Programs provides opportunities for students to serve as leaders as well as providing leadership development opportunities. CU LEAD is a holistic leadership development



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

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

Organizations

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

Academic Organizations

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

Alpha Delta Nu 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.

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

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

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.

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

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

Epsilon Pi Lambda is a student organization that provides

opportunities for students to grow in their appreciation of the fields of history and government and an outlet for pursuing knowledge, obtaining academic support, gaining fellowship, and providing service

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.

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

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

Professional Organizations

Allied Health Student Organization promotes scholarship, fellowship, and spiritual growth among students majoring in allied health through meetings featuring clinical topics, devotions, and prayer as well as enhance understanding of the profession and facilitate opportunities for growth.

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

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



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

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

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

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

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

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

Omicron Mu Epsilon provides those interested in free market economics an opportunity for discussion and an outlet to exercise our responsibility to care for others; to encourage thought and consideration in the realm of economics and its connection to history, politics, business, and theology; and to provide underclassmen the opportunity to interact with and be mentored by upperclassmen with similar interests.

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

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

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

Society of 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.

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

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.

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.

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

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 Organizations

Cross-Cultural Organizations

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

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

Immigration Organization promotes a biblical worldview on immigration, community outreach, and raises awareness politically and socially as it relates to the issues of immigration.

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.

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.

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

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

Union of Cedarville International Students (UCIS) provides opportunities for international students to meet their distinctive needs and plan ways to share their unique contributions.

Social/Service Organizations

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

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

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

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

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

Lambda Eta Pi is a community of men who are intentionally seeking to develop and demonstrate lives changed by Christ through edification and fellowship within the organization and a demonstration of Christ's love to the community.

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

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.

Arnold Air Society seeks to enhance the AFROTC and USAFA commissioning programs and project the USAF image on campus and in the community.

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

Cedarville Marksmanship Club aims to promote safe and educated gun use and to provide opportunities for both competition and education related to both firearm safety and marksmanship.

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

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



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

Cedarville Zoological Society desires to demonstrate stewardship of God's creation by learning and experiencing a variety of forms and animal husbandry.

Christians United for Israel exists to politically engage students who are in support of the United States-Israel relationship and to provide a means through which students may learn how to approach Israel's current political situation in the world to advocate for Israel as believers.

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

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

Environmental Stewardship Organization seeks to promote a healthy, God-centered view of creation care. This org strives to do this through campus outreach and education, recreational activities, and service opportunities that actively engage the student body and encourage environmental stewardship.

Expressions of Praise (EOP) provides an environment for dancers of all backgrounds to come together to partner in spreading the Gospel of Christ and His love through dance.

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

Flying Aces encourages the pursuit of leadership excellence within Cedarville University and serves as a forum for leadership techniques and opportunities, especially focused on Air Force ROTC students.

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

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

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

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

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

Young Women for America (YWA) of Cedarville University is a project of Concerned Women for America, the nation's largest public policy women's organization, aimed at training up the next generation of conservative women leaders. YWA seeks to influence public policy with biblical principles through praying, educating, and taking action, while focusing on six core issues: sanctity of life, religious liberty, family, education, national sovereignty, and pornography.

Departmental Organizations

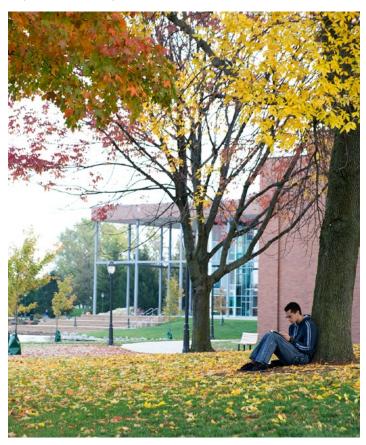
Cedarville University Emergency Medical Services (CUEMS) is a volunteer ambulance service run entirely by students from Cedarville University. As an EMS provider, CUEMS responds to all medical and traumatic emergencies on the University campus, as well as being available to the surrounding community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

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

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

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

The 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.



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



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Undergraduate Admission Criteria

Apply online at cedarville.edu/myapplication

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

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

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

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

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

Admission Criteria for Freshmen Candidates

- 1. Evidence of a personal relationship with Jesus Christ.
- 2. A consistent Christian lifestyle confirmed by a Christian leader reference.
- 3. A minimum 3.0 unweighted, cumulative grade point average in college preparatory course work.
- ACT or SAT test scores at or above the national average (22 ACT; 1020 SAT).

Admission Criteria for Transfer Candidates

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

Admission Criteria for Postbaccalaureate Candidates

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

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

- 1. Evidence of a personal relationship with Jesus Christ.
- 2. A consistent Christian lifestyle confirmed by a Christian leader reference.
- 3. Successful completion of a secondary school program.

- 4. Transfer applicants should have a minimum of a 3.0 cumulative college grade point average in nondevelopmental course work.
- 5. Minimum TOEFL score of 80 or IELTS score of 6.5.

Admission Criteria for College Now Candidates

- 1. Evidence of a personal relationship with Jesus Christ.
- A consistent Christian lifestyle as confirmed by a church leader.
- A 3.0 unweighted, cumulative grade point average in college-preparatory course work through the end of the most recent term prior to enrollment.
- ACT or SAT test scores (22 ACT composite: 21 English, 19 Math, 20 Reading, 20 Science; pre-March 2016 SAT 1020 combined: 500 Critical Reading, 500 Math; post-March 2016 SAT 1100 combined: 570 Evidence Based Reading and Writing, 530 Math).

Admission Criteria for Readmit Candidates

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

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

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

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

Admission Criteria for Nondegree Candidates (personal enrichment/audit)

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



Undergraduate Admission Process and Deadlines

Cedarville University follows a rolling admissions process. An application is reviewed as soon as the application and all supplemental items are received. However, if an applicant's credentials do not meet rolling admission standards, the file may be held for full committee review. This process occurs monthly and involves a thorough review of the applicant's academic credentials as well as a variety of personal factors. Applicants who are held for full committee review will be contacted by their admission counselor. Application files may also be held for additional information if deemed necessary. Applicants are officially notified by letter within two weeks after the admissions committee acts upon the completed file. Applicants may also monitor their application status online.

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

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

Reservation Deposit

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

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

Reservation deposit deadlines are as follows:

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

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

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

New Student Orientation

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

Undergraduate Admission PoliciesHigh School Preparation

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

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

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

It is common for applicants to present transcripts containing

honors, advanced placement, and international baccalaureate courses.

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

Grade Point Average Calculation

Unweighted high school cumulative grade point averages are considered, along with SAT and ACT scores, for evaluation of admission to the University as well as in the awarding of academic scholarships and need-based grants. Please visit the University's Financial Aid website for the most current policy on the use of GPA and ACT/SAT for determining financial aid.

Any cumulative grade point average indicated as "weighted" is recalculated using the high school's grading scale. All cumulative GPAs reported in numeric averages are converted to letter grades using the school's grading scale. Grade point averages are recalculated based on an unweighted 4.0 scale. All grades earned for high school credit are considered.

Homeschooled Students Transcript Policy

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

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

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

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

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

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

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

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

High School Graduation Date Policy

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

In rare circumstances, College Now students, or first-time freshman may encounter difficulties in completing their high school

curriculum by the date indicated on the initial transcript. If the circumstances are beyond the control of the student, the student may submit a written request for a change in the graduation date to Admissions. The request should include a letter of explanation from school officials along with an updated transcript containing the new graduation date.

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

Standardized Test Use

General Use

Cedarville University always considers your highest ACT composite score or SAT combined score (critical reading and math) from a single test date. We do not recombine or "superscore" SAT or ACT scores from multiple test dates. Cedarville University recommends that you take the ACT writing test, but it is not required for admission. Cedarville University does not require SAT subject tests.

Cedarville's SAT code is 1151 and our ACT code is 3245. Test scores should be reported directly from the respective testing agency. Scores may also be reported on the official high school transcript from traditional high school programs.

Financial Aid

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

Proficiency and Test Out

Upon enrollment, University students must demonstrate proficiency in English and mathematics. For proficiency purposes, Cedarville University will consider the highest subject score from either the ACT or SAT. English proficiency can be met with either a score of 21 on the English section of the ACT, or a score of 500 on the critical reading section of the SAT. Math proficiency can be met with either a score of 19 on the math section of the ACT, or a score of 500 on the math section of the SAT. For more information, please refer to the General Education Requirements on page 24.

Cedarville does accept test scores submitted from the Advanced Placement program, the International Baccalaureate program, and the College Level Examination Program (CLEP). For further information on these programs, contact the Office of the Registrar.

Undergraduate Transfer Policies

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

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

is included.

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

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

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

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

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

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

All international applicants are required to submit one of the following: TOEFL, IELTS, ACT, or SAT scores. Cedarville's institution code for the TOEFL /SAT is 1151 and for the ACT is 3245. The test must have been taken within the last five years. Test scores may be waived for applicants who have completed an entire baccalaureate program in a U.S. college or university.

International applicants coming from countries in which English is not the native language will need to demonstrate their proficiency in English by taking the Test of English as a Foreign Language (TOEFL) or the International English Language Test (IELTS). All international applicants must submit official results from either TOEFL or IELTS. The required score on the TOEFL is an Internet-based score of 80. The required score on the IELTS is a 6.5. To satisfy United States Citizenship and Immigration Services requirements for F-1 visa status, Cedarville University is required by law to verify the financial resources of each international applicant prior to issuing the Certificate of Eligibility (Form I-20 for F-1 visa applicants or Form DS-2019 for J-1 visa applicants). In addition to completing application for admission materials to Cedarville University, accepted students must also submit the Affidavit of Financial Support form (with supporting bank documents). Prior to final enrollment, international students must deposit funds to cover one semester's worth of expenses at the University in U.S. currency. University expenses include tuition, room, board, and variable costs.

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



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Graduate and Professional Education

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

Graduate faculty challenge students to think critically, communicate effectively, excel professionally, and engage their world with the heart and mind of Jesus Christ. Equipping Christian professionals for lifelong leadership and service, Cedarville provides an education that is marked by excellence and grounded in biblical truth.

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

Current graduate, first-professional, and certificate offerings:

Degree/Program **Delivery Format** Master's Degrees Master of Business Administration Online Concentration: Operations Management Online Master of Divinity Campus Master of Education Online Campus/Online Master of Ministry Master of Science in Nursing Focus: Family Nurse Practitioner Online Focus: Global Public Health Nursing Online Focus: Nurse Educator Online Professional Degree **Doctor of Pharmacy** Campus Dual Degree: Pharm.D./M.B.A. Campus/Hybrid Graduate Certificates (non-degree) Global Public Health Nursing Online Principal Licensure Online Reading Endorsement Online

For information about available graduate, first-professional, or certificate programs, contact University Admissions at 1-800-CEDARVILLE (233-2784), email gradadmissions@cedarville.edu, or visit cedarville.edu/graduate.

Undergraduate Study

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

Calendar and Credits

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

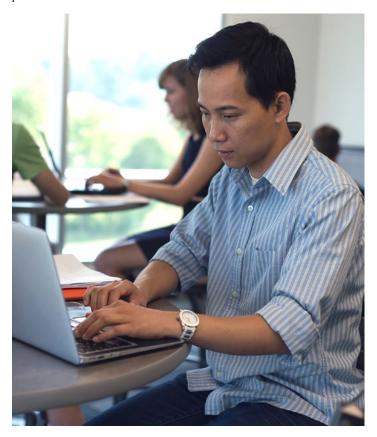
Assignment to Classes

Official class membership is determined according to the following schedule:

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

Class Attendance

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



Academic Information Undergraduate Degree Requirements

Undergraduate Degree Requirements

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

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

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

- Meet all admission and proficiency requirements. 1.
- Complete at least 128 semester hours (not including proficiency), 32 hours of which must be of upper-division work (3000-4000 level-courses).
- Maintain an overall cumulative GPA of not less than 2.0.
- Maintain a GPA in the major of not less than 2.0.
- 5. Establish minimum residency of one year (32 semester hours, normally the senior year).
- 6. Complete the general education requirements.
- Complete the specific course and professional 7. requirements for the desired major. At least one-third of the course requirements within a major must be taken from Cedarville University.
- Pass ENG-1400 Composition.
- Satisfy the appropriate global awareness requirement.
- 10. Participate in the University testing and assessment program when asked.
- 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:

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

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

- Have earned the first baccalaureate degree from a regionally accredited institution of higher education or from an institution specifically approved by Cedarville University.
- Meet all the admission and proficiency requirements.
- Earn at least 32 credits from Cedarville University, including at least 22 credits of upper-division courses (3000-4000 level courses).

- Fulfill the equivalent of the Cedarville University general education requirements.
- Fulfill the requirements of a designated major for the second baccalaureate degree.
- Earn at least a 2.0 GPA in the major.
- Participate in the University testing and assessment program when asked.
- Complete an application for graduation.

Graduation

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

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

IMPORTANT

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

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 Information Academic Programs and Majors

Academic Programs and Majors Admission to Academic Programs

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

Selecting a Major

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

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

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



Requirements of a Major

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

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

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

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

Academic Information Academic Programs and Majors

Major Fields of Undergraduate Study

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

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

- Management
- Marketing
- Mathematics
- Mathematics Education Integrated
- · Mechanical Engineering
- Middle Childhood Education
- Molecular and Cellular Biology
- Music
- Music Composition
- Music Education Multi-Age
- Music Performance
- Nursina
- · Pharmaceutical Sciences
- Physical Education Multi-Age
- Physical Science Education
- Physics
- Physics Education
- Political Science
- Prelaw*
- Professional Writing and Information Design
- Psychology
- Public Administration*
- Science Comprehensive Education — Integrated
- Social Studies Education
 Integrated
- Social Work
- Spanish
- Spanish Education Multi-Age
- Special Education-Intervention Specialist
- Sport Business Management
- Studio Art
- Theatre
- Visual Communication Design
- Worship
- Youth Ministries

Minor Fields of Undergraduate Study

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

- · Actuarial Science
- Arts Administration
- Asian Studies
- Bible
- Bible Teacher Education
- Biblical Care and Counseling
- Bioethics
- Biology
- Biomedical Engineering
- Broadcasting and Digital Media
- Business Administration
- Chemistry
- Christian Education
- Christian Ministries Management
- Church History
- Coaching
- Comprehensive Communication Arts
- Computer Science
- Interactive Web Design
- Creative Writing
- Criminal Justice
- Cross-Cultural Nursing
- Digital Film
- Earth Science
- Economics
- Editing and Publishing
- Entrepreneurship
- French
- Geology
- German
- Graphic Design
- Greek
- History
- Information Technology Management

- Intercultural Communication
- International Business
- · International Studies
- Latin American Studies
- Linguistics
- Literature
- Marketing
- Mathematics
- Middle Eastern Studies
- Mission
- Motion Graphics
- Music
- Music Technology
- Organizational
 Communication
- Pastoral Ministry
- Philosophy and Theology
- Physics
- Political Science
- Preseminary Bible
- Psychology
- Public Administration
- Public Policy
- Public Relations
- Sociology
- Spanish
- Spanish for Professionals
- Sport Management
- Sport Ministry
- Studio Art
- Teaching English to Speakers of Other Languages (TESOL)
- Theatre
- Theatre Performance
- Western European Studies
- Western Ediopeal
 Women's Ministry
- Worship
- · Writing for the Professions
- Youth Ministry

Academic Information Special Academic Programs

Electives

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

Special Academic Programs

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

One-Year Bible Program

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

College Now Program

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

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

Preprofessional Programs

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

Other Programs

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

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

Continuing Education

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

Non-credit courses do not accumulate toward a degree or

certificate, but are the same high-quality programs that you expect from Cedarville University. They can be useful for career enhancement, personal improvement, or taken just for enjoyment.

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

EMS Education and Special Credit

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

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

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

Summer Terms

The University offers many courses online in the summer in addition to the session on campus.

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

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



Academic Information International Study Opportunities

International Study Opportunities

Students are encouraged to take advantage of a semester-long or yearlong programs 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 courses for Cedarville credit. Semester/Year programs are open to all students who meet the specific program requirements. The Cedarville summer study programs are open to all students. Advanced planning is highly recommended. For additional information and help with planning, contact International Programs at cedarville.edu/internationalprograms. Preapproval from International Programs must be received before students can participate in any of the programs.

Special Programs

Cedarville University in Spain

cedarville.edu/semesterinspain

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

Cedarville University D.C. Semester

cedarville.edu/dcsemester

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

Summer Geology of National Parks

A Cedarville professor teaches a hands-on geology course in one of the national parks. The course fulfills Cedarville's general education physical science course requirement.

Cedarville Summer Abroad Programs

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.

Cedarville has cooperating agreements with several 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.

CCTECC Student Teaching Abroad Program

CCTECC is the Christian Coalition Teacher Education Coordinating Council and is made up of Christian colleges from across the U.S. Since the late 1980s, this organization has helped 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. Schools and mentor teachers who meet Cedarville's standards and the requirements of the Ohio Department of Education participate. 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

Cedarville University is a "sustaining partner" with Au Sable Institute. Students enrolled at Cedarville University (and who meet prerequisites) may take advantage of field-intensive courses offered by the Au Sable Institute, including geographic information systems, marine mammals, international development, tropical agriculture, marine biology, wildlife ecology, and missions. Students may choose to attend any of four Au Sable Institute locations: Au Sable Great Lakes (Mancelona, Michigan), Au Sable Pacific Rim (Whidbey Island, Washington), Au Sable Costa Rica (Vara Blanca, Costa Rica), and Au Sable India (Tamil Nadu, South India). Au Sable courses provide academic content, field experience, and practical tools for stewardship of creational resources. The Institute grants vocational certificates for environmental analysts, land resource analysts, water resource analysts, and naturalists. Academically qualified students are awarded the Au Sable Fellowship (\$1,400). Institute Grants-in-Aid of at least \$500 are also available each year. Honors scholarships of \$250-400 are granted to returning students. As a "sustaining partner" Cedarville students are also granted a tuition discount (\$400 per course). Interested students should contact Dr. Mark Gathany, Cedarville University's Au Sable Institute representative. at mgathany@cedarville.edu.

The Cove — Academic Enrichment Center

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

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



Academic Information Additional Academic Support



Programs

- Learning Strategy
- · Academic Mentoring
- ELL (English Language Learners)

Courses

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

Services

- Disability Services Provides reasonable, appropriate
 accommodations to ensure equal access to programs
 and services for students impacted by a disability. If you
 are in need of accommodations because of the impact
 of a disability, please contact Disability Services at
 disabilityservices@cedarville.edu or 937-766-7457. Detailed
 information on Disability Services and the accommodation
 process can be found at cedarville.edu/DisabilityServices.
- Tutorina
- LASSI (study strategy inventory)
- · One-on-one consultations
- Meetings with learning specialists
- Presentations and seminars
- Supplemental instruction
- · Support for exploratory/undeclared majors

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

COLL-0900 Foundations is open to all freshmen. However, this one-credit-hour course may be required for some students whose academic backgrounds do not reflect their collegiate potential. This opportunity reflects our desire for each student to establish a strong academic foundation and maintain academic momentum. Admission to the required course is determined by the admissions committee. There is a \$150 course fee for Foundations, which is limited to 12 students per class. Credits earned for COLL-0900 Foundations do not count toward the 128 hours required for graduation.

Additional Academic Support

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

The Centennial Library

The Centennial Library provides students with world-class information resources in physical and digital formats including printed books and journals, extensive e-book and e-journal collections, physical and digital media, and specialized, programspecific tools and databases. Through the library's Research Center, library professionals support students and faculty in making more efficient use of library resources through workshops, classroom instruction, online help, and individual research appointments. The library's collections are supplemented by access to the resources of OhioLINK, a cooperative of over 100 Ohio college and university libraries, with access to more than 50 million library items through a centralized computer catalog and on-campus delivery.

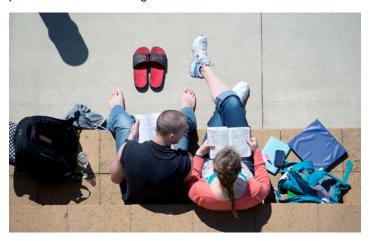
The library also contains the MediaPLEX, the Curriculum Materials Center, computer classrooms, a variety of individual and group study facilities, and the University archives. The MediaPLEX offers project and production support including copying, printing, paper and materials supply, and other services.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

Credit by Examination Advanced Placement

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

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

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



Academic Information Credit by Examination

College Level Examination Program (CLEP)

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

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

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

Institutional Test-Out

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

A student may not test out of a course previously audited. Tests must be taken during registration week or during the first two full calendar weeks of the semester. Credits earned by test-out during a semester do not count toward the 12 semester hours



required for full-time status. No student may earn more than 40 semester hours of test-out credit through tests administered at the University, CLEP, AP, IB, or any other recognized testing agency. Hours earned by test-out do not count as hours in residence toward graduation with honors

International Baccalaureate

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



Academic Information General Education Requirements

General Education Requirements

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

The general education pattern is:

- Score 22 or higher on the ACT Composite (writing section optional) or score 1020 or higher on the SAT (Critical Reading + Math combined score) AND achieve a high school GPA (unweighted) of 3.0 or higher
- Score a 21 or higher on the ACT Composite (writing section optional) or score a 1000 SAT (Critical Reading + Math combined score) AND achieve a high school GPA (unweighted) of 3.5 or higher
- Achieve a cumulative college GPA of 2.75 or higher in at least 12 hours of 1000-level (or higher) college course work completed prior to enrollment at Cedarville. Proficiency will be satisfied and transfer credit will also be awarded
- 4. Successfully complete the course COLL-0900 Foundations (one semester hour; fee: \$150), which is to be taken during the first semester of matriculation. This credit does not apply toward the 128 credits needed for graduation. NOTE: Pending availability in the course, COLL-0900 Foundations is open to all students regardless of whether or not they satisfy the college study skills requirement.

II. English and Mathematics Proficiency0–5 hrs Each student upon initial enrollment at the University must demonstrate proficiency in English and mathematics.

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

- Score 21* or higher on the English section of the ACT; or
- Score 500* or higher on the critial reading section of the recentered SAT; or
- 3. Score 59 or higher on the CLEP College Composition Examination; or
- 4. Complete a course equivalent to Cedarville University ENG-0900 Writing Studio with a grade of "C-" or higher (A = 4.0 system) at another approved institution of higher learning prior to matriculation at Cedarville. The credits will not be transferred, but proficiency will be established and enrollment in ENG-1400 Composition will be permitted; or
- Complete a college-level composition course with a grade of "C-" or higher (A = 4.0 system) at another approved institution of higher learning. Proficiency will be satisfied and transfer credit will be awarded; or
- 6. If proficiency is not verified by any of the means listed above, the required proficiency must be achieved through successful completion of the course ENG-0900 Writing Studio (one semester hour). This course will be taken concurrently with the composition course during the first year at Cedarville. The one credit for this course does not apply toward the 128 credits needed for graduation.
- B. Mathematics(0–2) Students may satisfy the mathematics proficiency requirement through any one of the following methods:
 - Score 19* or higher on the mathematics section of the ACT; or
 - Score 500* or higher on the quantitative section of the recentered SAT; or
 - 3. Score 53 or higher on the CLEP College Algebra exam; or

- 4. Complete a course equivalent to DEV-0900 Intermediate Algebra with at least a grade of "C-" or higher (A = 4.0 system) at another approved institution of higher learning. The credits will not be transferred, but proficiency will be established and enrollment in college-level quantitative courses will be permitted; or
- Complete a course equivalent to the Cedarville University GMTH-1020 College Algebra with a grade of "C-" or higher (A = 4.0 system) at another approved institution of higher learning. Proficiency will be satisfied and transfer credit will be awarded; or
- Complete the ALEKS assessment with a score of 100 on the mathematics section and a score of 80 or higher on the algebra section; or
- 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.

| III. A. B. C. D. E. | Biblical Education | 3 3 3 |
|------------------------------------|------------------------------------|--|
| IV. A. B. | Communication | 3 |
| V. A. B. C. | Humanities | 3 3 ⁺ 3 3 3 3 3 3 3 3 3 |
| | FILM-2350 Christian Motifs in Film | 3 3 6 3 3 |

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

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

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

Academic Information General Education Course Sequence

VI. Global Awareness

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

- A. Pass three years of the same foreign language* in high school or one term of an intermediate college-level foreign language*; or
- B. Live in a non-U.S. cultural immersion experience for at least one school year after the age of 12; or
- C. Pass two years of the same high school foreign language* or pass the second semester of a college-level foreign language* and one of the following:
 - A global awareness course selected from the list under letter D below.
- An approved intercultural experience of at least four weeks. Students pursuing a Bachelor of Science (B.S., B.S.Cp.E., B.S.N., B.S.E.E., and B.S.M.E.) degree must complete one of the following:
- A. Pass two years of the same foreign language* in high school; or
- B. Pass the second semester of a college-level foreign language*; or
- Live in a non-U.S. cultural immersion experience for at least one school year after the age of 12; or
- D. Complete a global awareness course from the following: ANTH-1800 Cultural Anthropology ARBC-1400 Introduction to Arabic Language and Culture BTPA-2260 World Religions BUS-3910 International Business
 - COM-2140 Intercultural Communication
 - COM-2300 Voices of Diversity
 - ECON-3380 Economic Development and Political Economy
 - GEO-3520 World Regional Geography Eastern
 - GER-3820 Germanic History and Culture
 - HIST-3080 History of Russia and Eastern Europe
 - HIST-3200 History and Politics of Latin America
 - HIST-3210 History and Politics of Asia
 - HIST-3220 History and Politics of the Middle East
 - HIST-3230 History and Politics of Western Europe
 - HIST-3750 Social Movements
 - HLMU-3400 Global Music
 - INTL-3190 Global Issues
 - INTL-3650 International Relations
 - MGMT-3570 International Management
 - MRKT-4620 International Marketing
 - NSG-4000 Care of Populations
 - NSG-4200 Culture and Health
 - DVOLL4000 Out to Continue I December 1
 - PYCH-1800 Cross-Cultural Psychology
 - SPAN-3680 History of Hispanics in the U.S.; or
- Complete an approved intercultural experience of at least four weeks.

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



| VII. | Physical Education2 hrs |
|-----------------------|--|
| A. | |
| VIII. A. B. | Science and Mathematics |
| C. | At least three semester hours selected from the following quantitative courses: BUS-2110, 2120 Statistics |
| | MATH, and PHYS designators; decision sciences; statistics; or computer application courses selected from the following: EGCP-1010 Digital Logic Design |
| IX. A. B. C. | Social Sciences and History |

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

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

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

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 five courses must be completed before the beginning of the junior year or before a student completes four regular semesters at Cedarville University:

- BTGE-1720 Spiritual Formation
- COM-1100 Fundamentals of Speech
- ENG-1400 Composition
- PEF-1990 Physical Activity and the Christian Life
- Quantitative Course Requirement (See the General Education Requirements for Science and Mathematics)

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

Course Load

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

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

To request 19-21.5 credit hours

The following students require advisor approval:

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

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

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

To request 22 or more credit hours

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

Distance Education

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

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

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

Transient Study

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

Registration for Courses

Course Numbers and Designations

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

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

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

Alternate Year Courses

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

Continuing at the University

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

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

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



Course Registration

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

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

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

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

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



Undergraduates in Graduate Courses

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

The undergraduate student:

- Must have achieved senior standing at the undergraduate level prior to taking graduate courses.
- Must have a cumulative undergraduate GPA of 3.70 or higher to take graduate course work.
- May not use more than two graduate courses toward requirements for an undergraduate degree.
- May take at most two graduate courses prior to graduation from the undergraduate program.
- Must meet all prerequisites for the graduate course(s) for which they intend to register.
- Must obtain the following approvals prior to registering for the graduate course:
 - the undergraduate advisor,
 - · the chair/dean of the undergraduate program, and
 - the director of the graduate program

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

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

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

Adding and Withdrawing From a Course

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

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

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

| Date of Change 16-Week and 14-week Classes Through the first full | Action: |
|--|---|
| calendar week | No Record on transcript |
| Second full calendar week through end of the ninth calendar week During the 10th and 11th | W - Withdrawn |
| calendar weeks or | WP-Withdrawn Passing WF-Withdrawn Failing |
| 12th week through the end of the semester | Drops not permitted |
| 12-Week Classes Through the sixth weekday from start of class Seventh weekday from start of class through end of the | No Record on transcript |
| Seventh calendar week | W – Withdrawn |
| During the eighth and ninth calendar weeks or 10th calendar week 12 through the end of the course | WP-Withdrawn Passing WF-Withdrawn Failing Drops not permitted |
| 8-Week Classes Through the sixth weekday from | Stope for permitted |

start of class

Page 28

through end of the fourth calendar week

Seventh weekday from start of class

During the fifth calendar week

Sixth calendar week through the end of the course

4-Week Classes Through the second weekday from start of class No Record on transcript Third weekday from start of class through 10th weekday from start of class W - Withdrawn 11th weekday from start of class through 14th weekday from start of class WP-Withdrawn Passing WF-Withdrawn Failing or 15th weekday from start of class through the end of the course Drops not permitted 3-Week Classes (or less) Through the second weekday from start of class No Record on transcript Third weekday from start of class through fifth weekday from start W - Withdrawn of class Sixth weekday from start of class

All Other Classes

10% from start of class

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

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

No Record on transcript

W – Withdrawn

Drops not permitted

Drops not permitted

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

through the end of the course

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

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

Auditing

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

No Record on transcript

WP-Withdrawn Passing WF-Withdrawn Failing

Drops not permitted

W - Withdrawn

Independent Study

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

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

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

Internships

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

Out-of-Class Courses

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

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

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

Grading System

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

- NP Indicates that the student did not pass a course where the credits do not count toward the graduation requirements. Basic English and Intermediate Algebra are examples of such courses.
- **NR** Indicates that the faculty member did not submit the grade in time for it to appear on the grade card.
- P Indicates that the student performed satisfactory work ("C-" average or better) in a course where the credits do not count toward graduation, such as Basic English or Intermediate Algebra.
- W Indicates that the student withdrew from the course between the second and ninth weeks of the semester.
- **WP** Indicates that the student is passing when a course is dropped during the 10th and 11th weeks of the semester.
- WF Used during the 10th and 11th weeks of the semester if the student is failing at the time of withdrawal.
- Z Indicates that the student did not complete the course but did not officially withdraw. A "Z" is treated in the same manner as an "F" grade when figuring the GPA.

Credit/No Credit Program

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

The following guidelines govern involvement in the program:

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



- A student may take just one elective course per term under the credit/no credit designation.
- The total number of courses (other than one-hour physical education courses) that may be taken under the credit/no credit designation is determined by the student's cumulative GPA:

2.0-2.49 one course

2.5-2.99 two courses

3.0-3.49 four courses

3.5 and above six courses

- A student taking an elective course who wishes to change from the credit/no credit designation to the regular grading designation must do so before the end of the fourth week of the semester.
- A student who wishes to change an elective course to the credit/no credit designation must do so before the end of the first full calendar week of the semester.

Grade Points and Point Averages

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

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

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

Grade Appeal Process

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

Petitions and Student Complaints

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

Academic Progress, Warning, and Suspension

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

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

Academic Progress Chart

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

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

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

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

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

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

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

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

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

Repeating Courses

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

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

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



Academic Information Academic Honors

Academic Integrity

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

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

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

- · Cheating on examinations or quizzes
- Plagiarism
- Knowingly furnishing false information by forgery, alteration, or misuse of documents, records, or identification within the course activities, requirements, or responsibilities
- Knowingly providing correct information to another student concerning exams and other future individual work is a violation of academic integrity. This includes, but is not limited to, questions to be asked on exams or answers for questions that will be asked
- Typical penalties assigned by faculty for a lack of academic integrity include, but are not limited to, the following:

Representing another's work as one's own

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

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

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

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

Academic Honors

Dean's Honor List

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

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

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

Dean's List

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

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

Graduation with Honors

Upon recommendation of the faculty, a student who earns a GPA of at least 3.5 will graduate "with honor"; one who earns a GPA of at least 3.75 will graduate "with high honor"; and one who earns a GPA of at least 3.9 will graduate "with highest honor." A student must be in residence at least two full years (61 semester hours) to qualify for graduation with honors. Hours earned by examination (test-out) do not count as hours in residence toward graduation with honors. The cumulative GPA at the end of the fall semester prior to spring commencement is used to determine recognition for graduation with honors at commencement. However, actual graduation with honors, as recorded on the final transcript, includes grades from all subsequent academic terms required to complete degree requirements.

Additional Academic Awards

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

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

The President's Trophy

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

Academic Information Withdrawing From the University

Withdrawing From the University

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

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

Withdrawal for Military Reasons

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

Tuition: 100 percent

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

Fees: 0

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

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

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

Family Educational Rights and Privacy Act

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

Academic Leadership

Loren Reno, Vice President for Academics and Chief Academic Officer

Deans and Chairs

Department of Art, Design, and Theatre
Terry Chamberlain, Chair: Associate Professor of Fine Art

School of Engineering and Computer Science
Robert Chasnov, Dean; Senior Professor of Engineering

School of Education

Jeremy Ervin, Dean; Associate Professor of Education

Department of English, Literature, and Modern Languages Melissa Faulkner, Chair; Professor of English

Department of Science and Mathematics

Dennis Flentge, Chair; Senior Professor of Chemistry

Department of Communication

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

School of Business Administration

Jeffrey Haymond, Dean; Associate Professor of Economics

Department of Kinesiology and Allied Health

Evan Hellwig, Chair; Professor of Athletic Training; Certified

Athletic Trainer (BOC); licensed physical therapist

Department of Social Work

Nelson Henning, Chair; Senior Professor of Social Work

School of Biblical and Theological Studies

Jason K. Lee; Dean; Professor of Theological Studies

School of Nursing

Angelia Mickle, Dean; Associate Professor of Nursing

Department of Music and Worship

Beth Cram Porter, Chair; Associate Professor of Vocal Music

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

School of Pharmacy

Marc Sweeney, Dean; Professor of Pharmacy Practice

Department of Psychology **Luke Tse**, Chair; Associate Professor of Psychology



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| Department of Music and Worship | .138 |
| School of Nursing | .153 |
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Department of Art, Design, and Theatre

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Department of Art, Design, and Theatre Mission Statement

Mission Statement

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

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

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

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

Personal Requirements Scholarships

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

Portfolio

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

Department Requirements

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

Theatre Program

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

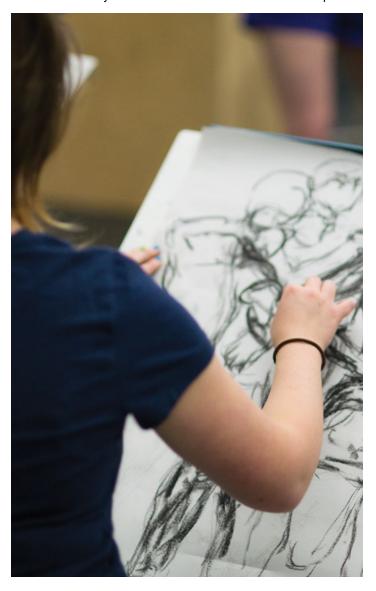
Industrial and Innovative Design, Studio Art, and Visual Communication Design Requirements

Freshman Review

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

Sophomore Review

At the end of the second semester of the sophomore year, industrial and innovative design, studio art, and visual communication design majors are required to apply to the department for upper-divisional standing. The sophomore review is an evaluation of classroom work and performance and intuitive abilities necessary to succeed in the student's chosen discipline. The art and design faculty will evaluate the student on the basis of academic progress, grade averages in major courses, and intuitive abilities necessary to succeed in the student's chosen discipline.



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

If necessary, the student may be required to present a portfolio representing every area of his or her work in visual communication design and/or studio art courses at the University. The portfolio should include original two-dimensional work and a CD of images of three-dimensional work. 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 an industrial and innovative design, studio art, and visual communication design major on the junior or senior level must submit along with their application a CD or DVD with images of two- and three-dimensional work representing collegiate classroom work and art done outside the classroom. The art and design faculty will review this material before acceptance into the program is granted.

Art and Design Requirements Art and Design Student Handbook

The Art and Design Student Handbook is an overview of all department policy as it applies to the student. Each art and design student is responsible for following the policies and procedures contained in both the handbook and the University catalog.

Capstone Exhibition or Project

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

Fees

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

Theatre Requirements

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



Programs of Study

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

Bachelor of Arts (B.A.) in:

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

Minors

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

Technical Resources

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

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

The computer network provides tools for research and design.



Department of Art, Design, and Theatre Cocurricular Opportunities

Cocurricular Opportunities

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

Theatre Cocurricular Opportunities

Each semester the Department of Art, Design, and Theatre presents a major theatrical production. In recent years the department has produced *Arsenic and Old Lace, A Doll's House, Romeo and Juliet, Mousetrap, An Ideal Husband, Alice in Wonderland, The Imaginary Invalid,* and *Crossing Delancy*. Performances are often sold out and are always greatly appreciated by the University family as well as many community guests.

Career Opportunities

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

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

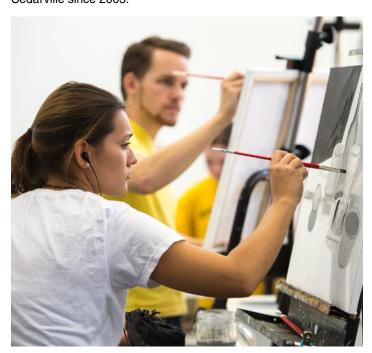
- Interior space designer
- · Retail art salesperson
- School teacher (elementary and secondary Christian or public schools)
- Studio artist
- Studio teacher
- · Theatre director
- Transportation designer
- Web Design



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

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

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





Timothy Frame, Assistant Professor of Graphic Design. *Education:* B.A., Morehead State University. At Cedarville since 2003.

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

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

Diane A. Merchant, Professor of Theatre. *Education:* B.A., Cedarville University, 1978; postgraduate work in theatre, Kent State University, 1983–84; M.A., The Ohio State University, 1989; Ph.D., The Ohio State University, 1996. At Cedarville since 1989. Rebekah Priebe, Instructor of Theatre. *Education:* B.A., Friends University, 2009; M.A., Kansas State University, 2013; M.F.A., The Ohio State University, 2016. At Cedarville since 2016. Philip Schanely, Assistant Professor of Interactive Design. *Education:* B.A., Cedarville University, 2006. At Cedarville since 2014.

Aemin Annie Lee-Zimerle, Assistant Professor of Studio Art. *Education:* B.F.A., The School of the Art Institute of Chicago, 2000; M.F.A., The School of the Art Institute of Chicago, 2003. At Cedarville since 2013.

Brian Zimerle, Assistant Professor of Studio Art. *Education:* B.F.A., The School of the Art Institue of Chicago, 2000; M.F.A., Cranbrook Academy of Art, 2003. At Cedarville since 2014.

Technical Support Staff

Bader, Ronald, Three-Dimensional Arts Studio Supervisor. *Education:* B.F.A., Wright State University. At Cedarville since

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

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

Industrial and Innovative Design

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

| The following requirements involve 83 semester hours: |
|--|
| Industrial and Innovative Design Core83 |
| ART-1100 Introduction to Art |
| ART-1110 Drawing Foundations3 |
| ART-1230 Two-Dimensional Design |
| ART-2230 Three-Dimensional Design3 |
| VCD-1100 Digital Imaging: Adobe Photoshop3 |
| IDES/VCD-2000 History and Influences of Design |
| IDES-3110 Drawing in Dynamic Perspective I |
| IDES-3120 Drawing in Dynamic Perspective II |
| IDES-3210 Language of Line4 |
| IDES-3220 Innovative Media Systems5 |
| IDES-3310 Fundamentals of Surface Development I |
| IDES-3320 Fundamentals of Surface Development II 4 |
| IDES-3410 Three-Dimensional Composition 4 |
| IDES-3420 Three-Dimensional Presentation4 |
| IDES-4010 Consumer Product Design4 |
| IDES-4020 Interior Space Design3 |
| IDES-4030 Transportation Design4 |
| IDES-4040 Architectural/Exterior Space Design4 |
| IDES-4200 Professional and Ethical Practices in Design 3 |
| IDES-4300 Design Project: Selection Statement, |
| Research and Scope3 |
| IDES-4400 Design Project and Presentation11 |
| Electives selected from the following |
| ART-2160 Sculpture Foundations3 |
| ART-3150 Ceramics3 |
| ART-3230 Watercolor3 |
| BUS-2100 Business Communication |
| VCD-1150 Digital Imaging: Adobe Illustrator3 |
| Industrial and Innovative Design Curriculum Summary |
| Proficiency Requirements0-5 |
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| Industrial and Innovative Design Major Requirements83 |
| 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 Industrial and Innovative Design

| First year: |
|--|
| ART-1100 Introduction to Art3 |
| ART-1110 Drawing Foundations |
| ART-1230 Two-Dimensional Design3 |
| BTGE-1720 Spiritual Formation |
| COM-1100 Fundamentals of Speech |
| ENG-1400 Composition |
| GBIO-1000 Principles of Biology |
| VCD-1100 Digital Imaging: Adobe Photoshop |
| HUM-1400 Introduction to the Humanities |
| PEF-1990 Physical Activity and the Christian Life |
| Quantitative Elective |
| |
| Total |
| Second year: |
| ART-2230 Three-Dimensional Design |
| BTGE-2730 Old Testament Literature |
| BTGE-2740 New Testament Literature |
| GSS-1100 Politics and American Culture |
| |
| IDES/VCD-2000 History and Influences of Design |
| History Elective |
| Industrial and Innovative Design Elective |
| LIT-2XXX Literature Elective |
| Physical Science Elective |
| Social Science/global awareness elective3 |
| Total |
| Third year: |
| BTGE-3755 Theology I3 |
| BTGE-3755 THEOlogy T |
| IDEC 2110 Drawing in Dynamic Paranastiva I |
| IDES-3110 Drawing in Dynamic Perspective I |
| IDES-3120 Drawing in Dynamic Perspective II |
| IDES-3120 Drawing in Dynamic Perspective II |
| IDES-3120 Drawing in Dynamic Perspective II 3 IDES-3210 Language of Line 4 IDES-3220 Innovative Media Systems 5 |
| IDES-3120 Drawing in Dynamic Perspective II 3 IDES-3210 Language of Line 4 IDES-3220 Innovative Media Systems 5 IDES-3310 Fundamentals of Surface Development I 3 |
| IDES-3120 Drawing in Dynamic Perspective II |
| IDES-3120 Drawing in Dynamic Perspective II |
| IDES-3120 Drawing in Dynamic Perspective II3IDES-3210 Language of Line4IDES-3220 Innovative Media Systems5IDES-3310 Fundamentals of Surface Development I3IDES-3320 Fundamentals of Surface Development II4IDES-3410 Three-Dimensional Composition4IDES-3420 Three-Dimensional Presentation4 |
| IDES-3120 Drawing in Dynamic Perspective II |

Department of Art, Design, and Theatre Studio Art

Studio Art

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

| The following requirements involve 62 semester hours: |
|---|
| Studio Art Core54 |
| ART-1100 Introduction to Art |
| ART-1110 Drawing Foundations3 |
| ART-1230 Two-Dimensional Design |
| ART-2110 Intermediate Drawing3 |
| ART-2130 Painting Foundations |
| ART-2160 Sculpture Foundations |
| ART-2170 Printmaking Foundations |
| ART-2230 Three-Dimensional Design |
| ART-3150 Ceramics |
| ART-3310 Art History I |
| ART-3320 Art History II |
| *ART-4300 Art Exhibition |
| ART-4400 20th Century Art3 |
| Studio Art courses selected from 15–24 |
| ART-3110 Advanced Drawing3-6 |
| ART-3130 Intermediate Painting3 |
| ART-3160 Intermediate Sculpture3 |
| ART-3170 Intermediate Printmaking3 |
| ART-4130 Advanced Painting3-6 |
| ART-4150 Advanced Ceramics3-6 |
| ART-4160 Advanced Sculpture3-6 |
| ART-4170 Advanced Printmaking3-0 |
| Electives selected from the following0-8 |
| ART-2250 Creative Photography3 |
| ART-3230 Watercolor 3 |
| ART-3250 Studio Photography3 |
| ART-4440 Installation Art3 |
| BTPA-4260 Philosophy of Art2 |
| BUS-2100 Business Communication |
| VCD-1100 Digital Imaging: Adobe Photoshop |
| VCD-1150 Digital Imaging: Adobe Illustrator3 |
| VCD-2200 Typography3 |
| VCD-2400 Graphic Design I3 |
| VCD-2600 Web Design I |
| THTR-3850 Seminar in Art Administration and Art Law 2 |
| *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 3 ART-1110 Drawing Foundations 3 ART-1230 Two-Dimensional Design 3 BTGE-1720 Spiritual Formation 3 COM-1100 Fundamentals of Speech 3 ENG-1400 Composition 3 GBIO-1000 Principles of Biology 3.5 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 PEF-1990 Physical Activity and the Christian Life 2 LIT-2XXX Literature Elective 3 |
|--|
| Total |
| Second year: ART-2110 Intermediate Drawing 3 ART-2130 Painting Foundations 3 ART-2160 Sculpture Foundations 3 ART-2230 Three-Dimensional Design 3 ART-3310 Art History I 3 ART-3320 Art History II 3 BTGE-2730 Old Testament Literature 3 BTGE-2740 New Testament Literature 3 Social Science/Global Awareness Elective 3 Quantitative Elective 3 Total 30 |
| Third year: ART-2170 Printmaking Foundations 3 ART-3150 Ceramics 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 Art Elective 12 Electives 9 Total 33 |
| Fourth year: ART-4300 Art Exhibition 3 ART-4400 20th Century Art 3 Art Electives 11 History Elective 3 Physical Science Elective 3.5 Electives 9 Total 32.5 |



Department of Art, Design, and Theatre Theatre

Theatre

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

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

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

Course requirements involve E6 competer bours including

| Course requirements involve 30 semester nours including. | |
|--|----|
| Theatre core requirements | 33 |
| THTR-1360 Introduction to Costuming | |
| THTR-1410 Introduction to Theatre | |
| THTR-1440 Stagecraft I | |
| THTR-1450 Stagecraft II | 1 |
| THTR-1490 Introduction to Stage Lighting | 3 |
| THTR-2350 Directing I | 3 |
| THTR-2430 Acting I | 3 |
| THTR-2470 Makeup Design | |
| THTR-2500 Introduction to Scenic Design | |
| THTR-3420 Theatre History I | |
| THTR-3430 Theatre History II | 2 |
| THTR-3470 Dramaturgy | |
| THTR-4400 Professional Preparation Seminar | 2 |
| THTR-4630 The Christian in Theatre | 2 |
| Concentration selected from the following | 23 |
| Design Concentration | |
| THTR-2440 Stagecraft III | |
| THTR-2460 Costume Design | |
| THTR-3440 Stage Costume History | |
| THTR-3450 Stagecraft IV | |
| THTR-3490 Stage Lighting Design | .3 |
| THTR-3520 Scenic Painting | |
| THTR-4500 Scenic Design | .3 |
| Select one of the following with theatre | |
| faculty approval | .3 |
| *THTR-4810 Internship: Theatre3 | |
| *THTR-4840 Senior Theatre Project3 | |
| Theatre elective | .3 |
| Performance Concentration | |
| THTR-1230 Voice for the Performer | |
| THTR-1430 Stage Movement | |
| THTR-2410 Advanced Performance Techniques | |
| THTR-3460 Acting II | .3 |
| THTR-3510 Directing II | |
| THTR-3530 Techniques of American Musical Theatre | .2 |
| Select one of the following with theatre | |
| faculty approval | .3 |
| *THTR-4810 Internship: Theatre3 | |
| *THTR-4840 Senior Theatre Project3 | |
| Theatre elective | .3 |

| Theatre Major Curriculum Summary | |
|--|-------|
| Proficiency Requirements | 0-5 |
| General Education Requirements | 48–56 |
| Theatre Major Requirements | 56 |
| Electives | 16–24 |
| 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 Theatre

| Major in Theatre |
|---|
| First year: BTGE-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 THTR-1360 Introduction to Costuming 3 THTR-1410 Introduction to Theatre 3 THTR-1440 Stagecraft I 1 THTR-1450 Stagecraft II 1 THTR-1490 Introduction to Stage Lighting 3 PEF-1990 Physical Activity and the Christian Life 2 Biology Elective 3.5 Total 31.5 Second year: 3 BTGE-2730 Old Testament Literature 3 BTGE-2740 New Testament Literature 3 BTHR-2350 Directing I 3 THTR-2430 Acting I 3 THTR-2470 Makeup Design 2 THTR-2500 Introduction to Scenic Design 3 Quantitative Elective 3 Theatre Concentration Courses 7 |
| Total 30 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 THTR-3420 Theatre History I 2 THTR-3470 Dramaturgy 3 Theatre Concentration Courses 10 History Elective 3 Physical Science Elective 3.5 Electives 4 Total 33.5 Fourth year: THTR-4400 Professional Preparation Seminar 2 THTR-4630 The Christian in Theatre 2 Theatre Concentration Courses 6 Social Science/Global Awareness Elective 3 Electives 20 Total 33 |
| 10tal |

Department of Art, Design, and Theatre Visual Communication Design

Visual Communication Design

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

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

The following requirements involve 67 semester hours:

| Visual Communication Design Core | 43–49 |
|---|-------|
| ART-1100 Introduction to Art | 3 |
| ART-1110 Drawing Foundations | 3 |
| ART-1230 Two-Dimensional Design | 3 |
| ART-2230 Three-Dimensional Design | 3 |
| ART-3310 Art History I | |
| ART-3320 Art History II | |
| PWID-3010 Style and Mechanics | 3 |
| VCD-1100 Digital Imaging: Adobe Photoshop | 3 |
| VCD-1150 Digital Imaging: Adobe Illustrator | |





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| /CD-1200 Design Thinking | 2 |
|--|------|
| /CD/IDES-2000 History and Influences of Design | 3 |
| /CD-2200 Typography | 3 |
| /CD-2400 Graphic Design I | . 3 |
| /CD-2600 Web Design I | 3 |
| /CD-3200 Portfolio I | . 1 |
| /CD-4200 Portfolio II | . 1 |
| /CD-4900 Visual Communication Design Internship 0- | |
| Electives selected from the following | |
| ART-2110 Intermediate Drawing | |
| ART-2130 Painting Foundations | |
| ART-2160 Sculpture Foundations | |
| ART-2170 Printmaking Foundations | |
| ART-2250 Creative Photography | |
| ART-3150 Ceramics | 3 |
| ART-3250 Studio Photography | |
| BRDM-2606 Introduction to Computer Animation for | J |
| Electronic Media | 2 |
| BRDM-3630 Principles of Computer Animation | |
| BRDM-3611 Web Analytics | |
| CS-1210 C++ Programming | |
| ITM 2300 Introduction to Programming | |
| DAID 4050 October Objects and Development | 0 |
| PWID-4050 Content Strategy and Development | 3 |
| Any 3000- or 4000-level VCD course | |
| Graphic Design Concentration | 18 |
| BRDM-2350 Introduction to Graphics for TV and Film | 3 |
| VCD-3300 Production Design I | 3 |
| VCD-3400 Graphic Design II | 3 |
| VCD-4300 Production Design II | 3 |
| VCD-4400 Graphic Design III | |
| Electives selected from the following: | 3 |
| VCD-2700 Scripting for Interactivity3 | |
| VCD-3700 User Experience and Interface Design3 | |
| nteractive Web Design Concentration | 18 |
| VCD-2700 Scripting for Interactivity | |
| VCD-3600 Web Design II | 3 |
| VCD-3700 User Experience and Interface Design | 3 |
| VCD-4600 Web Design III | . 3 |
| VCD-4700 Interactive Design Capstone | |
| Electives selected from the following: | 3 |
| VCD-3300 Production Design I3 | |
| VCD-3400 Graphic Design II3 | |
| , • | |
| /isual Communication Design Curriculum Summary | |
| Proficiency Requirements | 0-5 |
| Other General Education Requirements4 | 8–56 |
| /isual Communication Design Major Requirements | |
| General Electives | |
| otal (minimum, not including proficiency) | .128 |
| otal (minimum, not morating pronoterioy) | 20 |

Department of Art, Design, and Theatre Visual Communication Design

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

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

| First year: |
|---|
| ART-1100 Introduction to Art |
| ART-1110 Drawing Foundations3 |
| ART-1230 Two-Dimensional Design3 |
| BTGE-1720 Spiritual Formation |
| COM-1100 Fundamentals of Speech3 |
| ENG-1400 Composition3 |
| GBIO-1000 Principles of Biology3.5 |
| VCD-1100 Digital Imaging: Adobe Photoshop3 |
| VCD-1150 Digital Imaging: Adobe Illustrator3 |
| VCD-1200 Design Thinking2 |
| Quantitative Elective3 |
| Total |
| Second year: |
| ART-2230 Three-Dimensional Design |
| BTGE-2730 Old Testament Literature |
| BTGE-2740 New Testament Literature |
| GSS-1100 Politics and American Culture |
| PEF-1990 Physical Activity and the Christian Life2 |
| VCD/IDES-2000 History and Influences of Design3 |
| VCD-2200 Typography3 |
| VCD-2400 Graphic Design I |
| VCD-2600 Web Design I3 |
| |
| VCD-3200 Portfolio I1 |
| Physical Science Elective |
| |
| Physical Science Elective 3.5 Total 30.5 |
| Physical Science Elective 3.5 Total 30.5 Third year: |
| Physical Science Elective 3.5 Total 30.5 Third year: ART-3310 Art History I 3 |
| Physical Science Elective 3.5 Total 30.5 Third year: ART-3310 Art History I 3 ART-3320 Art History II 3 |
| Physical Science Elective 3.5 Total 30.5 Third year: ART-3310 Art History I 3 ART-3320 Art History II 3 BTGE-3755 Theology I 3 |
| Physical Science Elective 3.5 Total 30.5 Third year: ART-3310 Art History I 3 ART-3320 Art History II 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 |
| Physical Science Elective 3.5 Total 30.5 Third year: ART-3310 Art History I 3 ART-3320 Art History II 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 |
| Physical Science Elective 3.5 Total 30.5 Third year: ART-3310 Art History I 3 ART-3320 Art History II 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 PWID-3010 Style and Mechanics 3 |
| Physical Science Elective 3.5 Total 30.5 Third year: ART-3310 Art History I 3 ART-3320 Art History II 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 PWID-3010 Style and Mechanics 3 VCD-4200 Portfolio II 1 |
| Physical Science Elective 3.5 Total 30.5 Third year: ART-3310 Art History I 3 ART-3320 Art History II 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 PWID-3010 Style and Mechanics 3 VCD-4200 Portfolio II 1 LIT-2XXX Literature Elective 3 |
| Physical Science Elective 3.5 Total 30.5 Third year: 3 ART-3310 Art History I 3 ART-3320 Art History II 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 PWID-3010 Style and Mechanics 3 VCD-4200 Portfolio II 1 LIT-2XXX Literature Elective 3 Social Science Elective 3 |
| Physical Science Elective 3.5 Total 30.5 Third year: ART-3310 Art History I 3 ART-3320 Art History II 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 PWID-3010 Style and Mechanics 3 VCD-4200 Portfolio II 1 LIT-2XXX Literature Elective 3 |
| Physical Science Elective 3.5 Total 30.5 Third year: ART-3310 Art History I 3 ART-3320 Art History II 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 PWID-3010 Style and Mechanics 3 VCD-4200 Portfolio II 1 LIT-2XXX Literature Elective 3 Social Science Elective 3 Concentration Requirements 6 Total 31 |
| Physical Science Elective 3.5 Total 30.5 Third year: ART-3310 Art History I 3 ART-3320 Art History II 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 PWID-3010 Style and Mechanics 3 VCD-4200 Portfolio II 1 LIT-2XXX Literature Elective 3 Social Science Elective 3 Concentration Requirements 6 Total 31 Fourth year: |
| Physical Science Elective 3.5 Total 30.5 Third year: ART-3310 Art History I 3 ART-3320 Art History II 3 BTGE-3755 Theology I 3 HUM-1400 Introduction to the Humanities 3 PWID-3010 Style and Mechanics 3 VCD-4200 Portfolio II 1 LIT-2XXX Literature Elective 3 Social Science Elective 3 Concentration Requirements 6 Total 31 Fourth year: VCD-4900 Visual Communication Design Internship 0-6 |
| Physical Science Elective 3.5 Total 30.5 Third year: ART-3310 Art History I 3 ART-3320 Art History II 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 PWID-3010 Style and Mechanics 3 VCD-4200 Portfolio II 1 LIT-2XXX Literature Elective 3 Social Science Elective 3 Concentration Requirements 6 Total 31 Fourth year: VCD-4900 Visual Communication Design Internship 0-6 Visual Communication Design Electives 0-6 |
| Physical Science Elective 3.5 Total 30.5 Third year: ART-3310 Art History I 3 ART-3320 Art History II 3 BTGE-3755 Theology I 3 HUM-1400 Introduction to the Humanities 3 PWID-3010 Style and Mechanics 3 VCD-4200 Portfolio II 1 LIT-2XXX Literature Elective 3 Social Science Elective 3 Concentration Requirements 6 Total 31 Fourth year: VCD-4900 Visual Communication Design Internship 0-6 Visual Communication Design Electives 0-6 History Elective 3 |
| Physical Science Elective 3.5 Total 30.5 Third year: ART-3310 Art History I 3 ART-3320 Art History II 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 PWID-3010 Style and Mechanics 3 VCD-4200 Portfolio II 1 LIT-2XXX Literature Elective 3 Social Science Elective 3 Concentration Requirements 6 Total 31 Fourth year: VCD-4900 Visual Communication Design Internship 0-6 Visual Communication Design Electives 0-6 History Elective 3 Concentration Requirements 12 |
| Physical Science Elective 3.5 Total 30.5 Third year: ART-3310 Art History I 3 ART-3320 Art History II 3 BTGE-3755 Theology I 3 HUM-1400 Introduction to the Humanities 3 PWID-3010 Style and Mechanics 3 VCD-4200 Portfolio II 1 LIT-2XXX Literature Elective 3 Social Science Elective 3 Concentration Requirements 6 Total 31 Fourth year: VCD-4900 Visual Communication Design Internship 0-6 Visual Communication Design Electives 0-6 History Elective 3 |







Department of Art, Design, and Theatre Minors

Minors

Arts Administration Minor

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

Graphic Design Minor

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

| Graphic Design Core | 2 |
|---|---|
| ART-1230 Two-Dimensional Design | 3 |
| VCD-1100 Digital Imaging: Adobe Photoshop | 3 |
| VCD-1150 Digital Imaging: Adobe Illustrator | 3 |
| VCD-1200 Design Thinking | 2 |
| VCD-2200 Typography | 3 |
| VCD-2400 Graphic Design I | |
| VCD-3300 Production Design I | 3 |

Interactive Web Design Minor

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

| semester nours. | |
|--|----|
| Interactive Web Design Core | 17 |
| VCD-1000 Graphic Design for Non-Majors | 3 |
| or (VCD-2400 Graphic Design I | 3) |
| VCD-1200 Design Thinking | 2 |
| VCD-2600 Web Design I | 3 |
| VCD-2700 Scripting for Interactivity | 3 |
| VCD-3600 Web Design II | 3 |
| VCD-3700 User Experience and Interface Design | |
| Elective selected from the following | 3 |
| BRDM-2350 Introduction to Graphics for TV and Film | 3 |
| BRDM-3611 Web Analytics | 3 |
| ITM-2300 Introduction to Programming | 3 |
| PWID-4050 Content Strategy and Development | 3 |
| VCD-4600 Web Design III | 3 |
| | |

Studio Art Minor

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

| Art Core | 12 |
|---------------------------------------|----|
| ART-1100 Introduction to Art | 3 |
| ART-1110 Drawing Foundations | 3 |
| ART-1230 Two-Dimensional Design | 3 |
| ART-2230 Three-Dimensional Design | 3 |
| Electives selected from the following | 6 |
| ART-2110 Intermediate Drawing | 3 |
| ART-2130 Painting Foundations | 3 |
| ART-2160 Sculpture Foundations | 3 |
| ART-2170 Printmaking Foundations | 3 |
| ART-2250 Creative Photography | 3 |
| ART-3150 Ceramics | 3 |
| ART-3230 Watercolor | 3 |
| | |

Theatre Minor



Department of Art, Design, and Theatre Minors

| Theatre Design Minor | |
|---|-----|
| Course requirements for the minor in theatre design involve | |
| 18–19 semester hours selected from the following courses: | |
| Theatre Design Minor core | 16 |
| THTR-1360 Introduction to Costuming | 3 |
| THTR-1410 Introduction to Theatre | 3 |
| THTR-1440 Stagecraft I | 1 |
| THTR-1490 Introduction to Stage Lighting | |
| THTR-2500 Introduction to Scenic Design | 3 |
| One advanced theatre design course selected from the | |
| following: | |
| THTR-2460 Costume Design3 | |
| THTR-3490 Stage Lighting Design3 | |
| THTR-4500 Scenic Design3 | |
| Electives selected from the following | 2-3 |
| ART-1110 Drawing Foundations | 3 |
| ART-3230 Watercolor | 3 |
| VCD-1100 Digital Imaging: Adobe Photoshop | 3 |
| THTR-2470 Makeup Design | 2 |

following not already taken in core:

Theatre Performance Minor

| Course requirements for the minor in theatre performance | |
|---|----|
| involve 18-19 semester hours selected from the following course | s: |
| Theatre Performace minor core1 | 16 |
| THTR-1230 Voice for the Performer3 | |
| THTR-1410 Introduction to Theatre | |
| THTR-1430 Stage Movement3 | |
| THTR-1440 Stagecraft I 1 | |
| THTR-2430 Acting I | |
| THTR-2350 Directing I | |
| or THTR-3460 Acting II3 | |
| Electives selected from the following2- | -3 |
| THTR-2410 Advanced Performance Techniques 3 | |
| THTR-2470 Makeup Design2 | |
| THTR-2510 The Arts and Social Change3 | |
| THTR-3530 Techniques of American Musical Theatre 2 | |
| THTR-3610 Theatre for Young People2 | |
| THTR-4640 Special Topics-Stage Combat | |
| THTR-4640 Special Topics-Performing Shakespeare 3 | |
| THTR-4640 Special Topics-Stage Dialect: Applied | |
| Phonetics and Linguistics | |





School of Biblical and Theological Studies

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School of Biblical and Theological Studies Mission Statement

Mission Statement

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

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

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, culturally engaged, and God-honoring view of life

Personal Requirements

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

School Requirements

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

Programs of Study

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

Majors

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

Minors

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

Special Program

· One-Year Bible Certificate

Technical Resources

- Textbook-specific software
- · Course-specific software



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

Center for Apologetics and Public Christianity

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

Center for Biblical Integration

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

Cocurricular Opportunities

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

Alpha Sigma

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

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
- Writer
- Youth pastor

Faculty

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

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

Daniel DeWitt, Assistant Dean of Undergraduate Programs; Director, Center for Apologetics and Public Christianity; Associate Professor of Applied Theology and Apologetics. *Education:* B.A., Lexington Baptist College, 1999; M.Div., The Southern Baptist Theological Seminary, 2002; Ph.D., The Southern Baptist Theological Seminary, 2012. At Cedarville since 2016.

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

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

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

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

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

Donald Grigorenko, Professor of Missions. *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.

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

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

William Marsh, Assistant Professor of Theological Studies. *Education:* B.A., North Greeneville University, 2004; M.Div., Southwestern Baptist Theological Seminary, 2008; Ph.D., Southwestern Baptist Theological Seminary, 2014. At Cedarville since 2013.

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

School of Biblical and Theological Studies Faculty

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

Michael Parrott, Assistant Professor of Educational Ministries. *Education:* B.S., California Polytechnic State University, 1974; M.Div., Western Conservative Baptist Seminary, 1981; D.Min., Gordon Conwell Theological Seminary, 2010. At Cedarville since 2004.

Erin M. Shaw, Instructor of Women's Ministry. Education: B.S., University of Florida, 2002; M.Div., Southeastern Baptist Theological Seminary, 2005. At Cedarville since 2014. Michael Shepherd, Associate Professor of Biblical Studies. Education: B.F.A., New School University (NYC), 2000; M.Div., Southeastern Baptist Theological Seminary, 2004; Ph.D., Southeastern Baptist Theological Seminary, 2006. At Cedarville since 2015.

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

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

Joel Williams, Professor of New Testament and Greek. *Education:* B.A., Moody Bible Institute, 1980; Th.M., Dallas Theological Seminary, 1984; Ph.D., Marquette University, 1992. At Cedarville since 2010.

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



Emeriti

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

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 Christian 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.



School of Biblical and Theological Studies Biblical Studies

Biblical Studies

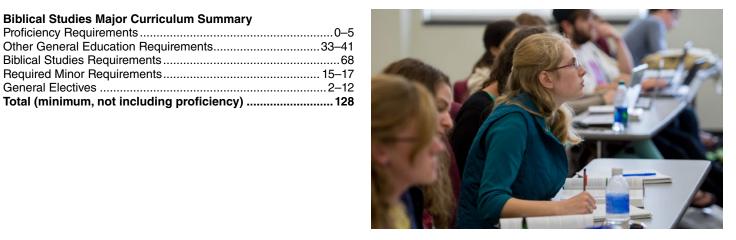
The **biblical studies major** built around a core of biblical studies courses can be tailored according to the student's needs. To enhance areas of professional preparation, the program allows students to choose any minor in the University curriculum. The graduates of this program will be uniquely equipped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

| Course requirements involve 83–85 semester hours including: General Education15 |
|--|
| BTGE-1720 Spiritual Formation |
| BTGE-2730 Old Testament Literature |
| BTGE-2740 New Testament Literature |
| |
| BTGE-3755 Theology I |
| BTGE-3765 Theology II |
| Biblical Studies requirements |
| BTAT or BTCM-XXXX Applied Theology or Christian Ministry |
| Elective |
| BTBL-2010 Introduction to Biblical Language Tools |
| BTBS-1000 Introduction to Biblical Studies |
| BTBS-2020 Biblical Research Methods1 |
| BTBS-4310 Hermeneutics3 |
| *BTBS-4850 Senior Seminar3 |
| BTHT-2500 Church History3 |
| BTHT-4100 Biblical Theology3 |
| BTHT-4300 Global Theology3 |
| BTNT-3110 New Testament 1: Synoptic Gospels 3 |
| BTNT-3130 New Testament 3: Pauline Literature |
| BTNT-3120 or 3140 Non-Pauline Literature Elective |
| BTOT-3110 Old Testament 1: Pentateuch |
| BTOT-3310 Old Testament 3: Latter Prophets3 |
| Select from the following6 |
| BTOT-3140 Psalms3 |
| BTOT-3150 Wisdom Literature3 |
| BTOT-3210 Old Testament 2: Former Prophets3 |
| BTOT-3410 Old Testament 4: Writings3 |
| BTPA-2200 Introduction to Philosophy |
| Select two history/theology elective from the following: 6 |
| BTHT-3340 Christian Theology 1: Bible, Trinity, |
| God the Father3 |
| BTHT-3350 Christian Theology 2: God the Son and |
| God the Spirit3 |
| BTHT-3360 Christian Theology 3: Humanity, Angels, and |
| Salvation3 |
| BTHT-3370 Christian Theology 4: The Church and |
| |
| Last Things3 |
| Required minor15–17 |
| *Capstone Course |
| Biblical Studies Major Curriculum Summary |
| Proficiency Requirements0-5 |
| Other General Education Requirements33–41 |

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

Suggested Four-Year Curriculum for a Major in Biblical Studies

| First year: |
|--|
| BTBS-1000 Introduction to Biblical Studies |
| BTBL-2010 Introduction to Biblical Language Tools3 |
| BTGE-1720 Spiritual Formation |
| BTGE-2730 Old Testament Literature |
| |
| COM-1100 Fundamentals of Speech3 |
| ENG-1400 Composition3 |
| GSS-1100 Politics and American Culture3 |
| HUM-1400 Introduction to the Humanities3 |
| PEF-1990 Physical Activity and the Christian Life2 |
| Biology Elective |
| Lister / Clabel Assertance Florities |
| History/Global Awareness Elective |
| Physical Science Elective |
| Total |
| |
| Second year: |
| BTAT or BTCM-XXXX Applied Theology or Christian |
| Ministry Elective3 |
| BTBS-2020 Biblical Research Methods |
| BTBS-4310 Hermeneutics3 |
| BTGE-2740 New Testament Literature |
| BTGE-3755 Theology I |
| BTNT-3110 New Testament 1: Synoptic Gospels |
| BTN 1-3 110 New Testament 1: Synoptic Gospels |
| BTOT-3110 Old Testament 1: Pentateuch3 |
| BTPA-2200 Introduction to Philosophy3 |
| LIT-2XXX Literature Elective |
| Quantitative Elective3 |
| Social Science Elective |
| Total |
| |
| Third year: |
| BTGÉ-3765 Theology II |
| BTHT-2500 Church History |
| BTHT-XXXX Theology Elective |
| BTHT-4300 Global Theology |
| BTOT YOU GIODAI THEOlogy |
| BTOT-XXXX Electives - Psalms, Wisdom Literature, |
| Old Testament 2 or 46 |
| BTNT-3120 or 3140 Non-Pauline Literature Elective3 |
| Minor Requirements6 |
| Total |
| |
| Fourth year: |
| BTBS-4850 Senior Seminar3 |
| BTHT-4100 Biblical Theology3 |
| BTNT-3130 New Testament 3: Pauline Literature |
| BTOT-3310 Old Testament 3: Latter Prophets |
| Minor Requirements |
| |
| General Electives2–12 |
| Total 33 |



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

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

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

Biblical Education15

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

| BTGE-1720 Spiritual Formation | 3 |
|--|-----------------------|
| BTGE-2730 Old Testament Literature | 3 |
| BTGE-2740 New Testament Literature | 3 |
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | |
| Biblical Studies Accelerated requirements Combined BA/MDiv — Year 1 | 3 |
| | |
| Combined BA/MDiv — Year 2 | 12 |
| Combined BA/MDiv — Year 2 BTAT-2400 Personal Evangelism | |
| BTAT-2400 Personal Evangelism | 3 |
| BTAT-2400 Personal EvangelismBTBL-2510 Elementary Greek I | 3 4 |
| BTAT-2400 Personal Evangelism BTBL-2510 Elementary Greek I BTBL-2520 Elementary Greek II | 3 4 4 |
| BTAT-2400 Personal Evangelism | 3 4 4 1 |
| BTAT-2400 Personal Evangelism BTBL-2510 Elementary Greek I BTBL-2520 Elementary Greek II. BTBS-2020 Biblical Research Methods BTPA-2200 Introduction to Philosophy | 3 4 4 1 3 |
| BTAT-2400 Personal Evangelism | 3 4 4 1 3 |
| BTAT-2400 Personal Evangelism BTBL-2510 Elementary Greek I BTBL-2520 Elementary Greek II. BTBS-2020 Biblical Research Methods BTPA-2200 Introduction to Philosophy | |

| BTAT-2000 Introduction to Missions | 3 |
|--|----|
| BTBL-3510 Intermediate Greek | 3 |
| BTBL-4110 Greek Syntax and Exegesis | 3 |
| BTBS-4310 Hermeneutics | 3 |
| BTHT-2500 Church History | 3 |
| (or BTHT-3500 Historical Theology | 3) |
| BTHT-3340 Christian Theology 1-Bible, Trinity, God | |
| the Father | 3 |
| BTHT-3350 Christian Theology 2 - God the Son and | |
| God the Spirit | 3 |
| BTNT-3110 New Testament 1: Synoptic Gospels | 3 |
| BTNT-3120 New Testament 2: Acts and New Testament | |
| Epistles | 3 |
| BTOT-3110 Old Testament 1: Pentateuch | 3 |
| BTOT-3210 Old Testament 2: Former Prophets | 3 |

- 1. Graduate students status begins in year 4.
- Students who are not accepted into the graduate program or who decide not to continue to completion of the Master of Divinity should switch to the regular track biblical studies major (see previous page), including the BTBS-4850 Senior Seminar (capstone course), to complete the undergraduate degree.

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

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

Suggested Three-Year Curriculum for Biblical Studies — Accelerated

| First year: | |
|---|-----|
| BTBS-1000 Introduction to Biblical Studies | 1 |
| BTBL-2010 Introduction to Biblical Language Tools | 3 |
| BTGE-1720 Spiritual Formation | 3 |
| BTGE-2730 Old Testament Literature | 3 |
| COM-1100 Fundamentals of Speech | |
| 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 | 2 |
| Biology Elective | |
| History/Global Awareness Elective | |
| Physical Science Elective | 3.5 |
| Total | |
| | |
| Second year: | |
| BTAT-2400 Personal Evangelism (spring) | |
| BTBL-2510 Elementary Greek I | 4 |
| BTBL-2520 Elementary Greek II | 4 |
| BTBS-2020 Biblical Research Methods | 1 |
| BTGE-2740 New Testament Literature | |
| BTGE-3755 Theology I | |
| BTGE-3765 Theology II | 3 |
| BTPA-2200 Introduction to Philosophy | |
| LIT-2XXX Literature Elective | 3 |
| Social Science/Global Awareness Elective | |
| Quantitative Elective | |
| Total | 33 |
| Third year: | |
| BTAT-2000 Intro to Missions (spring) | 2 |
| BTBL-3510 Intermediate Greek I (fall) | |
| BTBL-4110 Greek Syntax and Exegesis (spring) | 3 |
| BTBS-4310 Hermeneutics (fall) | |
| BTHT-2500 Church History (spring) | |
| (or BTHT-3500 Historical Theology (spring) | |
| BTHT-3340 Christian Theology 1-Bible, Trinity, God | 3) |
| the Father (fall) | 2 |
| BTHT-3350 Christian Theology 2 - God the Son and | 3 |
| God the Spirit (spring) | 2 |
| BTNT-3110 New Testament 1: Synoptic Gospels (fall) | 3 |
| BTNT-3120 New Testament 1: Synoptic Gospels (fail)BTNT-3120 New Testament 2: Acts and New Testament | 3 |
| Epistles (spring) | 2 |
| BTOT-3110 Old Testament 1: Pentateuch (fall) | |
| BTOT-3210 Old Testament 2: Former Prophets (spring) | |
| Total | |
| IVIAI | 33 |

School of Biblical and Theological Studies Christian Education

Christian Education

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

| Course requirements involve 74 semester hours including: | |
|--|------------------|
| General Education | |
| BTGE-1720 Spiritual Formation | 3 |
| BTGE-2730 Old Testament Literature | 3 |
| BTGE-2740 New Testament Literature | 3 |
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| Christian Education Core | |
| BTAT-2350 Theological Foundations of Ministry | 3 |
| BTAT-2400 Personal Evangelism | |
| BTAT-3410 Discipleship | |
| BTCM-1000 Orientation to Bible Ministries | |
| BTCM-2400 Interpreting and Teaching the Bible | 6 |
| BTCM-3680 Children's Ministries | |
| BTCM-3700 Campus Ministries | |
| BTCM-3720 Adult Ministries | |
| BTCM-4100 Leadership of Christian Education Ministries | 3 |
| *BTCM-4740 Internship in Christian Ministries | 3–12 |
| (or BTCM-4750 Internship in Youth Ministry | - 12) |
| BTNT-XXXX New Testament Elective | |
| BTOT-XXXX Old Testament Elective | |
| BTPA-XXXX Philosophy Elective (BTPA-2200 recommende | ed). 3 |
| ***BTHT-XXXX Theology Elective | |
| BTXX-XXXX Bible Electives (BTPA-3450 recommended) | |
| , | |



| Select one of the following ministry concentrations | 6 |
|---|------|
| Children's Ministries | 6 |
| EDEC-2100 Art and Music for Early Childhood | |
| EDSP-2500 Survey of Intellectual and | |
| Developmental Disabilities | .1 |
| EDUC-2400 Children's Literature | .2 |
| EDUC-2500 Educational Psychology | .3 |
| ESED-2900 Health and Movement Education for the | |
| Young Child | .2 |
| PYCH-2725 Child Development | |
| PYCH-2735 Child-Adolescent Development | |
| Counseling** | 6 |
| PYCH-3680 Counseling Couples and Families | .3 |
| PYCH-3701 Counseling Adolescents | .3 |
| PYCH-4400 Counseling Skills | .3 |
| PYCH-4700 Counseling Children | .3 |
| Cross-Cultural Ministries*** | 6 |
| BTAT-2000 Introduction to Mission | .3 |
| BTAT-3450 Contemporary World Missions | |
| BTAT-3470 Cross-Cultural Ministry | |
| BTAT-3510 Introduction to Urban Ministry | |
| Sports Ministries | |
| BTCM-2100 Wilderness Ministry | |
| CCHG-3670 Fundamentals of Coaching | |
| ESSE-1350 Foundations of Sports Ministries | .3 |
| ESSE-2810 Introduction to Camping | |
| ESSE-2830 Recreational Leadership | |
| SMGT-2500 Organizational Behavior in Sport | |
| Worship*** | 6 |
| WSHP-1010 Introduction to Worship Ministry | .1 |
| WSHP-1020 Introduction to Worship Technology | |
| WSHP-2060 Music and the Arts in Worship | |
| Women's Ministries*** | 6 |
| BTAT-3480 Women's Communication for Ministry | .3 |
| BTCM-3520 Counseling and Mentoring Women | |
| BTCM-3530 Contemporary Ministry to Women and Girls. | .3 |
| *Capstone Course | |
| **PYCH-1600 General Psychology must be completed and can satisfy the so | cial |

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

***Students who select the cross-cultural ministries concentration should take BTHT-4300 Global Theology as the theology elective. Two exceptions - Students with worship concentration should take BTAT-3730 Theology of Worship as the theology elective. Students with women's ministries concentration should take BTAT-2920 Scriptural Interpretations of Gender Issues and Roles as the theology elective.

Christian Education Curriculum Summary

| Proficiency Requirements | 0–5 |
|--|-------|
| General Education Requirements | 36–44 |
| Christian Education Major Requirements | 74 |
| Electives | 10–18 |
| Total (minimum, not including proficiency) | 128 |

School of Biblical and Theological Studies Christian Education

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

Suggested Four-Year Curriculum for a Major in Christian Education

| First year: | |
|--|----------------------------------|
| BTCM-1000 Orientation to Bible Ministries | 1 |
| BTGE-1720 Spiritual Formation | |
| COM-1100 Fundamentals of Speech | 3 |
| ENG-1400 English Composition | 3 |
| GSS-1100 Politics and American Culture | 3 |
| HUM-1400 Introduction to the Humanities | |
| PEF-1990 Physical Activity and the Christian Life | 2 |
| Biology Elective | |
| History/Global Awareness Elective | |
| Physical Science Elective | 3.5 |
| Social Science Elective | |
| Total | 31 |
| | |
| Second year: | _ |
| BTAT-2350 Theological Foundations of Ministry | 3 |
| BTCM-2400 Interpreting and Teaching the Bible | 6 |
| BTGE-2730 Old Testament Literature | |
| BTGE-2740 New Testament Literature | _ |
| LIT-2XXX Literature Elective | |
| Ministry Concentration Electives | |
| Philosophy Elective/Humanities Elective | 3 |
| Quantitative Elective | |
| T-4-1 | |
| Total | 30 |
| Third year: | |
| Third year: | |
| Third year: BTAT-2400 Personal Evangelism | 3 |
| Third year: | 3 |
| Third year: BTAT-2400 Personal Evangelism BTAT-3410 Discipleship | 3 3 |
| Third year: BTAT-2400 Personal Evangelism BTAT-3410 Discipleship BTCM-3680 Children's Ministries BTCM-3700 Campus Ministries | 3 4 4 |
| Third year: BTAT-2400 Personal Evangelism BTAT-3410 Discipleship BTCM-3680 Children's Ministries | 3 4 4 |
| Third year: BTAT-2400 Personal Evangelism BTAT-3410 Discipleship BTCM-3680 Children's Ministries BTCM-3700 Campus Ministries BTCM-3720 Adult Ministries | 3444 |
| Third year: BTAT-2400 Personal Evangelism BTAT-3410 Discipleship BTCM-3680 Children's Ministries BTCM-3700 Campus Ministries BTCM-3720 Adult Ministries BTGE-3755 Theology I | 3 4 4 4 3 |
| Third year: BTAT-2400 Personal Evangelism BTAT-3410 Discipleship BTCM-3680 Children's Ministries BTCM-3700 Campus Ministries BTCM-3720 Adult Ministries BTGE-3755 Theology I BTGE-3765 Theology II | 344433 |
| Third year: BTAT-2400 Personal Evangelism BTAT-3410 Discipleship BTCM-3680 Children's Ministries BTCM-3700 Campus Ministries BTCM-3720 Adult Ministries BTGE-3755 Theology I BTGE-3765 Theology II Electives Total | 344433 |
| Third year: BTAT-2400 Personal Evangelism BTAT-3410 Discipleship BTCM-3680 Children's Ministries BTCM-3700 Campus Ministries BTCM-3720 Adult Ministries BTGE-3755 Theology I BTGE-3765 Theology II Electives Total Summer: | 3444333 |
| Third year: BTAT-2400 Personal Evangelism. BTAT-3410 Discipleship BTCM-3680 Children's Ministries BTCM-3700 Campus Ministries. BTCM-3720 Adult Ministries. BTGE-3755 Theology I. BTGE-3765 Theology II. Electives. Total | 3 4 4 3 3 3 30 |
| Third year: BTAT-2400 Personal Evangelism BTAT-3410 Discipleship BTCM-3680 Children's Ministries BTCM-3700 Campus Ministries BTCM-3720 Adult Ministries BTGE-3755 Theology I BTGE-3765 Theology II Electives Total Summer: | 3 4 4 3 3 3 30 |
| Third year: BTAT-2400 Personal Evangelism BTAT-3410 Discipleship BTCM-3680 Children's Ministries BTCM-3700 Campus Ministries BTCM-3720 Adult Ministries BTGE-3755 Theology I BTGE-3765 Theology II Electives Total Summer: BTCM-4740 Internship in Christian Ministries | 3 4 4 3 3 3 30 |
| Third year: BTAT-2400 Personal Evangelism BTAT-3410 Discipleship BTCM-3680 Children's Ministries BTCM-3700 Campus Ministries BTCM-3720 Adult Ministries BTGE-3755 Theology I BTGE-3765 Theology II Electives Total Summer: BTCM-4740 Internship in Christian Ministries (or BTCM-4750 Internship in Youth Ministry | 344333330 |
| Third year: BTAT-2400 Personal Evangelism BTAT-3410 Discipleship BTCM-3680 Children's Ministries BTCM-3700 Campus Ministries BTCM-3720 Adult Ministries BTGE-3755 Theology I BTGE-3765 Theology II Electives Total Summer: BTCM-4740 Internship in Christian Ministries (or BTCM-4750 Internship in Youth Ministry Fourth year: BTCM-4100 Leadership of Christian Education Ministries | 344333330 .3–12 3–12) |
| Third year: BTAT-2400 Personal Evangelism BTAT-3410 Discipleship BTCM-3680 Children's Ministries BTCM-3700 Campus Ministries BTCM-3720 Adult Ministries BTGE-3755 Theology I BTGE-3765 Theology II Electives Total Summer: BTCM-4740 Internship in Christian Ministries (or BTCM-4750 Internship in Youth Ministry Fourth year: BTCM-4100 Leadership of Christian Education Ministries Bible Electives BTNT-XXXX New Testament Elective | 34433330 .3–12 3–12)330 |
| Third year: BTAT-2400 Personal Evangelism BTAT-3410 Discipleship BTCM-3680 Children's Ministries BTCM-3700 Campus Ministries BTCM-3720 Adult Ministries BTGE-3755 Theology I BTGE-3765 Theology II Electives Total Summer: BTCM-4740 Internship in Christian Ministries (or BTCM-4750 Internship in Youth Ministry Fourth year: BTCM-4100 Leadership of Christian Education Ministries Bible Electives | 34433330 .3–12 3–12)330 |
| Third year: BTAT-2400 Personal Evangelism BTAT-3410 Discipleship BTCM-3680 Children's Ministries BTCM-3700 Campus Ministries BTCM-3720 Adult Ministries BTGE-3755 Theology I BTGE-3765 Theology II Electives Total Summer: BTCM-4740 Internship in Christian Ministries (or BTCM-4750 Internship in Youth Ministry Fourth year: BTCM-4100 Leadership of Christian Education Ministries Bible Electives BTNT-XXXX New Testament Elective | 344333330 .3–12 3–12)33 |
| Third year: BTAT-2400 Personal Evangelism BTAT-3410 Discipleship BTCM-3680 Children's Ministries BTCM-3700 Campus Ministries BTCM-3720 Adult Ministries BTGE-3755 Theology I BTGE-3765 Theology II Electives Total Summer: BTCM-4740 Internship in Christian Ministries (or BTCM-4750 Internship in Youth Ministry Fourth year: BTCM-4100 Leadership of Christian Education Ministries Bible Electives BTNT-XXXX New Testament Elective BTOT-XXXX Old Testament Elective | 3443333330 .3–12 3–12)333 |





School of Biblical and Theological Studies Intercultural Studies — Missiology

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

Course requirements involve 21 semester hours of intercultural studies requirements, 45 hours of biblical and theological studies and ministry studies, and 15 to 20 hours of a required minor. Intercultural Studies Core Requirements21 ²HIST-32XX Any regional history3 ³INTL-3190 Global Issues3 LING-3080 Linguistics for Language Learning......3 Biblical and Theological Studies Requirements......18 BTBS-4310 Hermeneutics......3 BTHT-4300 Global Theology3 BTHT-3XXX or 4XXX Theology Elective......3 BTNT-3XXX or 4XXX New Testament Electives 3 (or BTPA-2250 Ethics......3) Ministry Studies......27 BTAT-2400 Personal Evangelism3 Required minor**15-20 ¹ Satisfies social science general education requirement.

- ² Satisfies history general education requirement.
- ³ Satisfies global awareness general education requirement.
- ⁴ Satisfies humanities general education requirement.
- *This is a capstone cross-cultural experience which focuses on the development of the student. It requires a minimum of 10 weeks living in another culture and is usually done between the student's junior and senior year.

Intercultural Studies — Missiology Major Curriculum Summary

| 0–5 |
|-------|
| 42–50 |
| 66 |
| 15–20 |
| 0–5 |
| 128 |
| |

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

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

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

| First year: ANTH-1800 Cultural Anthropology 3 BTAT-2000 Introduction to Mission 3 BTGE-1720 Spiritual Formation 3 BTGE-2730 Old Testament Literature 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 2 Biological Science Elective 3.5 Quantitative Elective 3 Total 32.5 |
|---|
| Second year: 3 BTAT-2400 Personal Evangelism 3 BTAT-2420 History or Mission 3 BTGE-2740 New Testament Literature 3 BTGE-3755 Theology I 3 BTOT-3XXX or 4XXX Electives 3 BTPA-2200 Introduction to Philosophy 3 (or BTPA-2250 Ethics 3) BTPA-2260 World Religions 3 LIT-2XXX Literature Elective 3 Physical Science Elective 3.5 Required minor 6 Total 33.5 |
| Third year: BTAT-3470 Cross-Cultural Ministry 3 BTAT-3510 Introduction to Urban Ministry 3 BTGE-3765 Theology II 3 BTNT-3XXX or 4XXX New Testament Elective 3 BUS-3910 International Business 3 HIST-32XX Regional History 3 INTL-3190 Global Issues 3 POLS-3650 International Relations 3 Required minor 6 Total 30 |
| Summer: BTAT-4720 Missionary Internship |
| LING-3080 Linguistics for Language Learning 3 (or LING-3090 Sociolinguistics 3) Required minor 3 General Electives 5 Total 29 |



School of Biblical and Theological Studies Youth Ministries

Youth Ministries

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

| Course requirements involve 73 semester hours including: | | |
|--|------|----|
| General Education | | 15 |
| BTGE-1720 Spiritual Formation | 3 | |
| BTGE-2730 Old Testament Literature | | |
| BTGE-2740 New Testament Literature | | |
| BTGE-3755 Theology I | | |
| BTGE-3765 Theology II | 3 | |
| Youth Ministries Core | | 60 |
| BTAT-2350 Theological Foundations of Ministry | | |
| BTAT-2400 Personal Evangelism | | |
| BTAT-3410 Discipleship | | |
| BTCM-1000 Orientation to Bible Ministries | | |
| BTCM-2200 Introduction to Youth Ministry | | |
| BTCM-2400 Interpreting and Teaching the Bible | 6 | |
| BTCM-3680 Children's Ministries | | |
| BTCM-3700 Campus Ministries | 4 | |
| BTCM-3720 Adult Ministries | 4 | |
| BTCM-4100 Leadership of Christian Educational Ministries | 3 | |
| *BTCM-4750 Internship in Youth Ministry 3 | 3–12 | |
| BTHT-XXXX Theology Elective | 3 | |
| BTNT-XXXX New Testament Elective | 3 | |
| BTOT-XXXX Old Testament Elective | 3 | |
| BTPA-XXXX Philosophy Elective | | |
| (BTPA-2200 recommended) | 3 | |
| BTXX-XXXX Bible electives (BTPA-3450 recommended) | 0-7 | |
| Select one ministry elective from the following: | 3 | |
| BTAT-2920 Scriptural Interpretations of Gender | | |
| Issues and Roles | .3 | |
| BTAT-3480 Women's Communication for Ministry | .3 | |
| BTAT-3510 Introduction to Urban Ministry | | |
| BTCM-2100 Wilderness Ministry | .3 | |
| BTCM-3510 Small Group Ministry | | |
| ESSE-2810 Introduction to Camping | | |
| *Capstone Course | | |

Youth Ministries Major Curriculum Summary

| Proficiency Requirements | 0–5 |
|--|-----|
| General Education Requirements | |
| Youth Ministries 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 Youth Ministries

| First year: | |
|---|---|
| BTCM-1000 Orientation to Bible Ministries1 | |
| BTCM-2200 Introduction to Youth Ministry | , |
| BTGE-1720 Spiritual Formation | |
| COM-1100 Fundamentals of Speech | |
| ENG-1400 Composition | |
| GSS-1100 Politics and American Culture | |
| HUM-1400 Introduction to the Humanities | |
| | |
| PEF-1990 Physical Activity and the Christian Life | |
| Biology Elective | |
| Physical Science Elective | |
| Quantitative Elective | |
| Total 30 |) |
| Second year: | |
| | |
| BTAT-2350 Theological Foundation of Ministry | |
| BTAT-2400 Personal Evangelism | • |
| BTCM-2400 Interpreting and Teaching the Bible6 | , |
| BTGE-2730 Old Testament Literature3 | |
| BTGE-2740 New Testament Literature3 | |
| BTPA-XXXX Philosophy Elective/Humanities Elective3 | , |
| History/Global Awareness Elective3 | 3 |
| LIT-2XXX Literature Elective | 3 |
| Social Science Elective | ; |
| Total |) |
| | |
| Third year: | |
| BTAT-3410 Discipleship3 | |
| BTCM-3680 Children's Ministries4 | |
| BTCM-3700 Campus Ministries4 | |
| BTCM-3720 Adult Ministries4 | |
| BTGE-3755 Theology I | |
| BTGE-3765 Theology II | |
| BTOT-XXXX Old Testament Elective | |
| Electives | |
| Total | |
| iotai | • |
| Summer: | |
| BTCM-4750 Internship in Youth Ministry3–12 | , |
| , | Ĭ |
| Fourth year: | |
| BTCM-4100 Leadership of Christian Educational Ministries3 | , |
| BTHT-XXXX Theology Elective3 | |
| BTNT-XXXX New Testament Elective | |
| BEXX-XXXX Ministry Elective | |
| Bible Electives0–7 | |
| Electives | |
| | |



School of Biblical and Theological Studies One-Year Bible Program

One-Year Bible Program

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

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

| General Education | 15 |
|---|----|
| BTGE-1720 Spiritual Formation | 3 |
| BTGE-2730 Old Testament Literature | 3 |
| BTGE-2740 New Testament Literature | 3 |
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| BTNT-XXXX New Testament Electives | |
| BTOT-XXXX Old Testament Electives | 3 |
| BTPA-XXXX Philosophy Elective | 3 |
| Other Bible Electives | 7 |
| Nicks As a second construction to second the second pilet second is set all site. | |

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

Minors

Bible Minor

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

| BTGE-1/20 Spiritual Formation | 3 |
|------------------------------------|---|
| BTGE-2730 Old Testament Literature | 3 |
| BTGE-2740 New Testament Literature | 3 |
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | |

Biblical Care and Counseling Minor

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

RTAT-3400 Biblical Care and Counseling

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

Bible Teacher Education Minor

Christian Ministry Minor

The **Christian ministry 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:

| BTCM-2400 Interpreting and Teaching the Bible | 6 |
|---|---|
| Choose one from the following | 4 |
| BTCM-3680 Children's Ministries4 | |
| BTCM-3700 Campus Ministries4 | |
| BTCM-3720 Adult Ministries4 | |
| Choose one from the following | 3 |
| BTAT-2000 Introduction to Mission | , |
| BTAT-2400 Personal Evangelism3 | i |
| BTAT-3410 Discipleship | |
| BTAT-3730 Theology of Worship3 | i |
| BTCM-3530 Contemporary Ministry to Women and Girls 3 | |
| BTCM-4100 Leadership of Christian Educational Ministries. 3 | i |
| BTCM-4740 Internship in Christian Ministries | , |
| Any courses with BTAT or BTCM designators | 3 |
| | |

Greek Minor

Mission Minor

Pastoral Ministry Minor

| or BTAT-2400 Personal Evangelism | 3 |
|---|-----|
| BTAT-3420 Introduction to Pastoral Ministry | |
| BTAT-3430 Ministerial Counseling | 3 |
| BTAT-3500 Text-Driven Preaching 1 | |
| BTCM-4100 Leadership in Christian Education Ministries. | |
| Choose one from the following | 2–3 |
| BTAT-3410 Discipleship | 3 |
| BTAT-3510 Introduction to Urban Ministry | |
| BTAT-4710 Ministry Internship | |
| | |

School of Biblical and Theological Studies Minors

Philosophy and Theology Minor

Preseminary Minor

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

| BTBL-2510 Elementary Greek I | 4 |
|--------------------------------|---|
| BTBL-2520 Elementary Greek II | |
| BTBL-2610 Elementary Hebrew I | 3 |
| BTBL-2620 Elementary Hebrew II | 3 |
| One course selected from | |
| BTPA-2250 Ethics | 3 |
| BTBS-4310 Hermeneutics | 3 |
| BTHT-XXXX Theology Electives | 3 |
| | |



Women's Ministry Minor

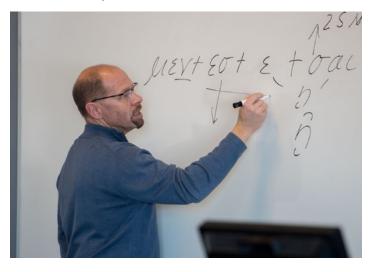
| Course requirements are. | |
|--|---|
| BTCM-3520 Counseling and Mentoring Women | 3 |
| BTCM-3530 Contemporary Ministry to Women and Girls | 3 |
| BTAT-3480 Women's Communication for Ministry | 3 |
| or BTHT-3750 Historical Theology of Womanhood | 3 |
| BTHT-3740 Biblical Theology of Womanhood | 3 |
| BTAT-2400 Personal Evangelism | 3 |
| or BTAT-2920 Scriptural Interpretations of | |
| Gender Issues/Roles | 3 |
| or BTAT-3410 Discipleship | 3 |
| or BTCM-3510 Small Group Ministry | |
| | |



Youth Ministry Minor

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

| serve in your ministries. These courses include. | | |
|--|---|---|
| BTCM-2200 Introduction to Youth Ministry | 2 | 2 |
| BTCM-2400 Interpreting and Teaching the Bible | 6 | 3 |
| BTCM-3700 Campus Ministries | 4 | 1 |
| Select one from the following | 3 | 3 |
| BTAT-2000 Introduction to Mission | 3 | |
| BTAT-2400 Personal Evangelism | 3 | |
| BTAT-3410 Discipleship | 3 | |
| BTCM-3530 Contemporary Ministry to Women and Girls | 3 | |
| BTCM-4750 Internship in Youth Ministries | 3 | |
| BTCM-4990 Topics in Christian Education | 3 | |
| | | |





School of Business Administration

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School of Business Administration Mission Statement

Mission Statement

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

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

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

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

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

Accreditation

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



Personal Requirements

A college preparatory curriculum in high school provides the best preparation for the bachelor's degree programs in the School of Business Administration. Three or four years of high school mathematics, including calculus, are recommended for students anticipating study in business. No previous course work 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.

School Requirements

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

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

- Students majoring in business must earn at least a 2.0 GPA in all sophomore-level business courses required for their major in order to graduate with a degree in a business major.
- Students majoring in business must earn at least a "C-" in any

prerequisite business course before being allowed to enter the subsequent course for which that course is a prerequisite. Waivers to this requirement are made only in exceptional circumstances, and such waivers require the approval of the Dean of the school in consultation with the professor responsible for the subsequent course.

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

Programs of Study

The School of Business Administration offers the following programs:

Majors

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

Minors

- Business Administration
- Christian Ministries
- Management
- Economics
- Entrepreneurship
- Information Technology Management
- International Business
- Marketing
- Sport Management

Cocurricular Opportunities

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

Accounting Society

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

Association 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.

School of Business Administration Career Opportunities

Financial Management Association

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

Human Resource Management

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

Enactus

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

Women in Business

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

Career Opportunities

Accounting Major

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

- Auditor
- Budget analyst
- Chief financial officer
- Controller

- CPA
- FBI agent
- Internal audit
- IRS agent

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:

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

Global Economics and International Business Major

Global Economics and International Business (GEIB) 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
- International division of a domestic company
- Multinational enterprise
- One of the many government organizations at the national, state, or local level concerned with global business development

Information Technology Management Major

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

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

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

Marketing Major

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

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

Sport Business Management Major

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

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

Faculty

Jeffrey Haymond, Dean. Professor of Economics. Education: B.S., United States Air Force Academy, 1985; M.S., University of Tennessee, 1989; M.A., University of Denver, 1997; Ph.D., George Mason University, 2001. At Cedarville since 2010. John Delano, Associate Dean (interim) for Undergraduate Programs, Associate Professor of Information Technology Management. Education: B.S., Maranatha Baptist Bible College, 1996; M.S., University of Wisconsin-Whitewater, 2001; Ph.D., University of Wisconsin-Milwaukee, 2011. At Cedarville since 2008. Daniel Sterkenburg, Assistant Dean for Graduate Programs, Director of Graduate Studies, Associate Professor of Business and Management. Education: B.S., Calvin College, 1977; M.P.H., University of Michigan School of Public Health, 1999; M.B.A., Wright State University, 1990; D.B.A. (ABD), Anderson University, in process. At Cedarville since 2010.

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.

School of Business Administration Integrated Business Core (IBC)

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.

Alejandro Camacho, Associate Professor of Marketing. *Education:* M.S., University of Georgia, 1991. B.B.A. in Economics, Corporacion Universitaria Autonomo de Occidente, 1986. At Cedarville since 2012.

Jeffrey Guernsey, Associate Professor of Finance. *Education:* B.S., Purdue University, 1979; M.Sc., Iowa State University, 1981; D.B.A. (ABD), Anderson University. 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.

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

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

Loren Reno, Vice President for Academics; Professor of Management. Education: B.A., Cedarville University, 1970; M.S., University of Southern California, 1981. At Cedarville since 2012. Anne Rich, Professor of Accounting. Education: B.A., Cedarville University, 1978; M.S., University of Central Florida, 1978; C.P.A., State of Florida, 1979. At Cedarville since 2000.

David Rotman, Associate Vice President for Information Technology/Chief Information Officer; Professor of 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.

Galen Smith, Professor of Economics. *Education:* B.A., Washburn University, 1966; M.S., Kansas State University, 1968; M.Div., Grace Theological Seminary, 1978; D.Min., Trinity Evangelical Divinity School, 1998. At Cedarville since 1981.

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

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

Phoebe Tsai, Assistant Professor of Information Technology Management. *Education:* B.B.A., National Chengchi University, 1997; M.B.A., National Chengchi University, 2000; Ph.D., University of Western Ontario, 2010. At Cedarville since 2013. Bert Wheeler, Professor of Economics. *Education:* B.S., University of Tennessee, 1981; M.A., University of Tennessee, 1984; Ph.D., University of Tennessee, 1985. At Cedarville since 1992. Andrew Wonders, Assistant Professor of Sport Business

Management. *Education:* B.S., Sport Management, Slippery Rock University, 2000; M.S., Sport Administration, University of Northern Colorado, 2006. At Cedarville since 2013.

Emeriti

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

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

Integrated Business Core (IBC)

The Integrated Business Core (IBC) was initiated by the School of Business Administration of Cedarville University in 2002. The objective of the program is to break down the "silo mentality" present in traditional approaches to business education and help students develop a cross-disciplinary view of business.

Students in the IBC take a prepatory course in marketing in the spring of their sophomore year, followed by a combined Principles of Management and Principles of Finance course. Students also take the IBC practicum, where they put their business skills learned in the principles course to work. As part of the practicum, students form their own company, write a business plan, obtain a loan, implement their plan, make a profit, and close down operations. While running their company, they choose a local nonprofit organization to provide a minimum of 10 hours of work per student and all of their profits at the end of the semester.

The IBC gives students more ownership of the learning process and provides practical, real-life experience of actually doing what they are learning about. In the years since its inception at Cedarville University, IBC students have donated 5,900 hours of service and \$45,500 to nonprofit organizations.

Advisory Council

The School of Business Administration advisory council consists of entrepreneurs, business leaders, and educators representing diverse areas of business. Through annual meetings, these experts advise the University and evaluate its plans for strengthening Cedarville's position of leadership in undergraduate business education.

Board members include:

Ms. Elizabeth Arch, Alegent Creighton Health

Mr. Harry Badanes, J.D. Cloud & Co. LLP

Mr. Ronald Baker, Executive Management Consulting

Mr. Devin Cheek, Rolls Royce

Dr. Jan Conway, Retired Dean, School of Nursing

Mr. Mike Crawford, College For Less, Inc.

Mr. Louie D'Amico, America Flavors (Givaudan Flavors Corp)

Ms. Lori Greenawalt, KPMG

Mr. Jon Greenwood, Huntington Bank

Mr. Ronald Heineman, Diversified Venture Funds

Mr. Mark Horne, Plymouth Venture Partners

Dr. Rajshekhar Javalgi, Cleveland State University

Mr. Brian Learst, Quint Events

Dr. Scott MacKenzie, Indiana University Bloomington

Mr. Joshua Overholt, Investment Counselors of Maryland

Mr. Lorne Scharnberg, KATECHO, Inc

Mr. Travis Smith, Vitwaste

Mr. Nick Wallace, CapinCrouse

School of Business Administration Accounting

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 69 semester hours including: | |
|--|----------------|
| ACCT-2110 Principles of Accounting I | 3 |
| ACCT-2120 Principles of Accounting II | 3 |
| ACCT-3110 Intermediate Financial Accounting I | 3 |
| ACCT-3120 Intermediate Financial Accounting II | |
| ACCT-3150 Accounting Information Systems | 3 |
| ACCT-3170 Managerial Accounting | 3 |
| ACCT-4110 Federal Income Tax | |
| ACCT-4120 Auditing | 3 |
| BUS-1000 The Business Profession | 2 |
| BUS-2150 Statistics for Business | 3 |
| BUS-2180 Business Law | |
| BUS-3000 The Business Experience | 1 |
| BUS-3910 International Business | |
| BUS-4420 Business Ethics and Social Responsibility | |
| ECON-2330 Microeconomics | |
| ECON-2340 Macroeconomics | |
| FIN-3710 Principles of Finance | |
| ITM-1500 Information Technology for Business | 2 |
| ITM-1510 Software Tools for Business | 2 |
| MGMT-3500 Principles of Organization and Management | |
| *MGMT-4510 Strategic Management | |
| MRKT-3600 Principles of Marketing | |
| Accounting electives selected from the following | 9 |
| ACCT-4130 Advanced Financial Accounting3 | |
| ACCT-4150 Government and Non Profit Accounting 3 | |
| ACCT-4170 Advanced Managerial Accounting3 | |
| ACCT-4210 Taxation of Business Entities | |
| ACCT-4220 International Accounting 3 | |
| BUS-3180 Business Law II | |
| *Capstone Course | |
| | |
| Required Cognate | 3 |
| GMTH-1020 College Algebra3 | |
| (Satisfies quantitative requirement for general education core.) | |
| | |
| Accounting Major Curriculum Summary | |
| Proficiency Requirements0 | - 5 |
| General Education Requirements48- | -56 |
| Accounting Major Requirements | 69 |
| Required Cognate | |
| Electives0 | - 8 |
| Total (minimum, not including proficiency)1 | 28 |
| , | |

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 **nasba.org**.

Students may qualify for the Ohio requirements by completing the 128 semester hours plus additional 22 semester hours including some additional accounting electives. The course plan includes the following:

| Accounting Major Requirements | 128 hours |
|-------------------------------|-----------|
| Other Elective Courses | 22 hours |
| 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.

| ACC 1-4 150 Government and Nonprotit Accounting | 3 |
|---|---|
| ACCT-4210 Taxation of Business Entities | 3 |
| ACCT-4810 Seminar in Accounting | 1 |
| BUS-2100 Business Communication | |
| BUS-3180 Business Law II | 3 |

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

Suggested Four-Year Curriculum for a Major in Accounting

| First year: |
|---|
| BTGE-1720 Spiritual Formation3 |
| BUS-1000 The Business Profession |
| COM-1100 Fundamentals of Speech |
| ENG-1400 Composition |
| GMTH-1020 College Algebra3 |
| GSS-1100 Politics and American Culture |
| HUM-1400 Introduction to the Humanities |
| ITM-1500 Information Technology for Business2 |
| ITM-1510 Software Tools for Business |
| Biological Science Elective |
| LIT-2XXX Literature Elective |
| Physical Science Elective |
| Total |
| |
| Second year: |
| ACCT-2110 Principles of Accounting I |
| ACCT-2120 Principles of Accounting II |
| BTGE-2730 Old Testament Literature3 |
| BTGE-2740 New Testament Literature3 |
| BUS-2150 Statistics for Business3 |
| BUS-2180 Business Law3 |
| ECON-2330 Microeconomics3 |
| ECON-2340 Macroeconomics3 |
| PEF-1990 Physical Activity and the Christian Life2 |
| Social Science Elective3 |
| Electives3 |
| |
| Total |
| |
| Third year: |
| Third year: ACCT-3110 Intermediate Financial Accounting I |
| Third year: ACCT-3110 Intermediate Financial Accounting I |
| Third year: ACCT-3110 Intermediate Financial Accounting I |
| Third year: ACCT-3110 Intermediate Financial Accounting I |
| Third year: ACCT-3110 Intermediate Financial Accounting I |
| Third year: ACCT-3110 Intermediate Financial Accounting I |
| Third year: 3 ACCT-3110 Intermediate Financial Accounting I 3 ACCT-3120 Intermediate Financial Accounting II 3 ACCT-3150 Accounting Information Systems 3 ACCT-3170 Managerial Accounting 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 |
| Third year: 3 ACCT-3110 Intermediate Financial Accounting I 3 ACCT-3120 Intermediate Financial Accounting II 3 ACCT-3150 Accounting Information Systems 3 ACCT-3170 Managerial Accounting 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 |
| Third year: 3 ACCT-3110 Intermediate Financial Accounting I 3 ACCT-3120 Intermediate Financial Accounting II 3 ACCT-3150 Accounting Information Systems 3 ACCT-3170 Managerial Accounting 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 |
| Third year: ACCT-3110 Intermediate Financial Accounting I |
| Third year: 3 ACCT-3110 Intermediate Financial Accounting I 3 ACCT-3120 Intermediate Financial Accounting II 3 ACCT-3150 Accounting Information Systems 3 ACCT-3170 Managerial Accounting 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 |
| Third year: ACCT-3110 Intermediate Financial Accounting I |
| Third year: 3 ACCT-3110 Intermediate Financial Accounting I 3 ACCT-3120 Intermediate Financial Accounting II 3 ACCT-3150 Accounting Information Systems 3 ACCT-3170 Managerial Accounting 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 Total 31 |
| Third year: 3 ACCT-3110 Intermediate Financial Accounting I 3 ACCT-3120 Intermediate Financial Accounting II 3 ACCT-3150 Accounting Information Systems 3 ACCT-3170 Managerial Accounting 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 Total 31 Fourth year: |
| Third year: ACCT-3110 Intermediate Financial Accounting I 3 ACCT-3120 Intermediate Financial Accounting II 3 ACCT-3150 Accounting Information Systems 3 ACCT-3170 Managerial Accounting 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 Total 31 Fourth year: ACCT-4110 Federal Income Taxes 3 |
| Third year: ACCT-3110 Intermediate Financial Accounting I 3 ACCT-3120 Intermediate Financial Accounting II 3 ACCT-3150 Accounting Information Systems 3 ACCT-3170 Managerial Accounting 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 Total 31 Fourth year: ACCT-4110 Federal Income Taxes 3 ACCT-4120 Auditing 3 |
| Third year: 3 ACCT-3110 Intermediate Financial Accounting I 3 ACCT-3120 Intermediate Financial Accounting II 3 ACCT-3150 Accounting Information Systems 3 ACCT-3170 Managerial Accounting 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 Total 31 Fourth year: ACCT-4110 Federal Income Taxes 3 ACCT-4120 Auditing 3 BUS-4420 Business Ethics and Social Responsibility 2 |
| Third year: ACCT-3110 Intermediate Financial Accounting I 3 ACCT-3120 Intermediate Financial Accounting II 3 ACCT-3150 Accounting Information Systems 3 ACCT-3170 Managerial Accounting 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 Total 31 Fourth year: ACCT-4110 Federal Income Taxes 3 ACCT-4120 Auditing 3 BUS-4420 Business Ethics and Social Responsibility 2 MGMT-4510 Strategic Management 3 |
| Third year: 3 ACCT-3110 Intermediate Financial Accounting I 3 ACCT-3120 Intermediate Financial Accounting II 3 ACCT-3150 Accounting Information Systems 3 ACCT-3170 Managerial Accounting 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 Total 31 Fourth year: ACCT-4110 Federal Income Taxes 3 ACCT-4120 Auditing 3 BUS-4420 Business Ethics and Social Responsibility 2 MGMT-4510 Strategic Management 3 History Elective 3 |
| Third year: ACCT-3110 Intermediate Financial Accounting I 3 ACCT-3120 Intermediate Financial Accounting II 3 ACCT-3150 Accounting Information Systems 3 ACCT-3170 Managerial Accounting 3 BTGE-3755 Theology I 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 Total 31 Fourth year: ACCT-4110 Federal Income Taxes 3 ACCT-4120 Auditing 3 BUS-4420 Business Ethics and Social Responsibility 2 MGMT-4510 Strategic Management 3 History Elective 3 Humanities Elective 3 |
| Third year: ACCT-3110 Intermediate Financial Accounting I 3 ACCT-3120 Intermediate Financial Accounting II 3 ACCT-3150 Accounting Information Systems 3 ACCT-3170 Managerial Accounting 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 Total 31 Fourth year: ACCT-4110 Federal Income Taxes 3 ACCT-4120 Auditing 3 BUS-4420 Business Ethics and Social Responsibility 2 MGMT-4510 Strategic Management 3 History Elective 3 Humanities Elective 3 Accounting Electives 9 |
| Third year: ACCT-3110 Intermediate Financial Accounting I 3 ACCT-3120 Intermediate Financial Accounting II 3 ACCT-3150 Accounting Information Systems 3 ACCT-3170 Managerial Accounting 3 BTGE-3755 Theology I 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 Total 31 Fourth year: ACCT-4110 Federal Income Taxes 3 ACCT-4120 Auditing 3 BUS-4420 Business Ethics and Social Responsibility 2 MGMT-4510 Strategic Management 3 History Elective 3 Humanities Elective 3 Accounting Electives 9 Electives 5 |
| Third year: ACCT-3110 Intermediate Financial Accounting I 3 ACCT-3120 Intermediate Financial Accounting II 3 ACCT-3150 Accounting Information Systems 3 ACCT-3170 Managerial Accounting 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 Total 31 Fourth year: ACCT-4110 Federal Income Taxes 3 ACCT-4120 Auditing 3 BUS-4420 Business Ethics and Social Responsibility 2 MGMT-4510 Strategic Management 3 History Elective 3 Humanities Elective 3 Accounting Electives 9 |

School of Business Administration Economics — Bachelor of Arts

Economics — Bachelor of Arts

The **Bachelor of Arts degree with a major in economics** prepares students for success in a wide variety of careers. Although various roles in businesses are most common, economic majors are successful in law, medicine, government, nonprofit, and international relations, as well as in academic roles.

| Course requirements involve 68 semester hours including: | |
|--|---|
| ACCT-2110 Principles of Accounting I | 3 |
| ACCT-2120 Principles of Accounting II | 3 |
| BUS-2180 Business Law | 3 |
| ECON-2330 Microeconomics | 3 |
| ECON-2340 Macroeconomics | 3 |
| ECON-3335 Intermediate Microeconomics | 3 |
| ECON/HIST-3340 History of Economic Thought | 3 |
| ECON-3345 Intermediate Macroeconomics | 3 |
| ECON/PUAD-3390 Public Finance | 3 |
| FIN-3710 Principles of Finance | 3 |
| GSS-3650 Quantitative Methodology | 3 |
| ITM-1510 Software Tools for Business | 2 |
| MGMT-3500 Principles of Organization and Management | 3 |
| *MGMT-4510 Strategic Management | 3 |
| MRKT-3600 Principles of Marketing | 3 |

| Economics concentrations selected from | 24 |
|---|----|
| Business Economics concentration | |
| BUS-3150 Operations Analysis | 3 |
| ECON-3310 Money and Financial Markets | 3 |
| ECON-3350 Comparative Economic Systems | |
| ECON-3360 International Trade Economics | 3 |
| ECON-3380 Economic Development | |
| and Political Economy | 3 |
| ECON-3410 Special Topics in Political Economy | 3 |
| Select two of the following | 6 |
| HIST-3230 History and Politics of Western Europe | .3 |
| POLS-3630 Congress | .3 |
| POLS-3690 Public Policy | .3 |
| POLS-3730 American Political Thought | |
| POLS-4630 American Constitutional Law | .3 |
| POLS-4640 American Constitutional Law - Governmen | ıt |
| Powers and Federalism | .3 |

| Political Economy concentration | |
|--|---|
| ECON-3350 Comparative Economic Systems | 3 |
| ECON-3410 Special Topics in Political Economy | 3 |
| HIST-3120 History of Recent and Contemporary America | 3 |
| HIST-3720 History of Political Thought II | 3 |
| POLS-3790 Comparative Politics | 3 |
| POLS-4640 American Constitutional Law - Government | |
| Powers and Federalism | 3 |
| Select one of the following | 3 |
| ECON-3310 Money and Financial Markets | 3 |
| ECON-3360 International Trade Economics | 3 |
| ECON-3380 Economic Development | |
| and Political Economy | 3 |
| Select one of the following | 3 |
| POLS-3630 Congress | 3 |
| POLS-3690 Public Policy | 3 |
| POLS-3730 American Political Thought | 3 |
| POLS-4630 American Constitutional Law: Civil – | |
| Liberties and Rights | 3 |
| *Capstone Course | |

| Economics — B.A. Major Curriculum Summary | |
|--|------------|
| Proficiency Requirements | 0-5 |
| General Education Requirements | |
| Economics Major Requirements | 68 |
| Required Cognate | 3 |
| Electives | 7–15 |
| Total (minimum, not including proficiency) | 128 |
| A complete description of the general education requirements is found or | n page 24. |

Suggested Four-Year Curriculum for a Major in Economics — B.A.

| First year: BTGE-1720 Spiritual Formation 3 COM-1100 Fundamentals of Speech 3 ENG-1400 Composition 3 GMTH-1020 College Algebra 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 ITM-1510 Software Tools for Business 2 Biological Science Elective 3.5 Physical Science Elective 3.5 Humanities Elective/Global Awareness 3 General Elective 3 Total 33 |
|--|
| Second year: 3 ACCT-2110 Principles of Accounting I 3 ACCT-2120 Principles of Accounting II 3 BTGE-2730 Old Testament Literature 3 BTGE-2740 New Testament Literature 3 BUS-2180 Business Law 3 ECON-2330 Microeconomics 3 ECON-2340 Macroeconomics 3 GSS-3650 Quantitative Methodology 3 PEF-1990 Physical Activity and the Christian Life 2 LIT-2XXX Literature Elective 3 Concentration Elective 3 Total 32 |
| Third year: 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 ECON-3335 Intermediate Microeconomics 3 ECON-3345 Intermediate Macroeconomics 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 Concentration Electives 9 General Electives 3 Total 33 Fourth year: ECON/HIST-3340 History of Economic Thought 3 ECON/PUAD-3390 Public Finance 3 MGMT-4510 Strategic Management 3 Concentration Electives 12 |
| General Electives |

School of Business Administration Economics — Bachelor of Science

Economics — Bachelor of Science

The **Bachelor of Science degree with a major in economics** prepares students for success in a wide variety of careers. Although various roles in businesses are most common, economic majors are successful in law, medicine, government, nonprofit, and international relations, as well as in academic roles Students will be prepared for graduate study in fields of economics, business, public administration, public policy, and law.

| Course requirements involve 68 semester hours including: | |
|--|-----|
| ACCT-2110 Principles of Accounting I | 3 |
| ACCT-2120 Principles of Accounting II | 3 |
| BUS-2180 Business Law | 3 |
| ECON-2330 Microeconomics | |
| ECON-2340 Macroeconomics | 3 |
| ECON-3335 Intermediate Microeconomics | |
| ECON/HIST-3340 History of Economic Thought | |
| ECON-3345 Intermediate Macroeconomics | |
| ECON/PUAD-3390 Public Finance | |
| FIN-3710 Principles of Finance | |
| GSS-3650 Quantitative Methodology | 3 |
| ITM-1510 Software Tools for Business | 2 |
| MGMT-3500 Principles of Organization and Management | 3 |
| *MGMT-4510 Strategic Management | 3 |
| MRKT-3600 Principles of Marketing | 3 |
| | 0.4 |
| Economics concentrations selected from | 24 |
| BUS-3150 Operations Analysis | 9 |
| ECON-3310 Money and Financial Markets | |
| ECON-3350 Comparative Economic Systems | |
| ECON-3360 International Trade Economics | 3 |
| ECON-3375 Mathematical Economics | |
| ECON-3379 Mathematical Economics | 3 |
| and Political Economy | 3 |
| ECON-3410 Special Topics in Political Economy | 3 |
| ECON-4110 Introduction to Econometrics | 3 |
| EOON 4110 Introduction to Eoonometrics | U |
| Political Economy concentration | |
| ECON-3375 Mathematical Economics | 3 |
| ECON-4110 Introduction to Econometrics | |
| HIST-3120 History of Recent and Contemporary America | |
| HIST-3720 History of Political Thought II | 3 |
| POLS-3790 Comparative Politics | |
| Select three of the following | 9 |
| ECON-3310 Money and Financial Markets3 | |
| ECON-3360 International Trade Economics3 | |
| ECON-3410 Special Topics in Political Economy3 | |
| POLS-3630 Congress3 | |
| POLS-3730 American Political Thought3 | |
| POLS-4640 American Constitutional Law - Government | |
| Powers and Federalism3 | |
| *Capstone Course | |

Economics — B.S. Major Curriculum SummaryProficiency Requirements.0-5General Education Requirements.43-51Economics Major Requirements.68Required Cognate.5Electives.4-12Total (minimum, not including proficiency).128

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

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

| rirst year: |
|--|
| BTGE-1720 Spiritual Formation3 |
| COM-1100 Fundamentals of Speech |
| ENG-1400 Composition3 |
| GSS-1100 Politics and American Culture |
| HUM-1400 Introduction to the Humanities |
| |
| ITM-1510 Software Tools for Business2 |
| MATH-1710 Calculus I5 |
| Biological Science Elective3.5 |
| Physical Science Elective |
| Humanities Elective |
| Total |
| |
| Second year: |
| ACCT-2110 Principles of Accounting I |
| ACCT-2120 Principles of Accounting II |
| BTGE-2730 Old Testament Literature |
| |
| BTGE-2740 New Testament Literature3 |
| BUS-2180 Business Law3 |
| ECON-2330 Microeconomics3 |
| ECON-2340 Macroeconomics |
| GSS-3650 Quantitative Methodology |
| PEF-1990 Physical Activity and the Christian Life2 |
| LIT-2XXX Literature Elective |
| General Elective |
| |
| Total |
| Third year: |
| BTGE-3755 Theology I3 |
| DTGE-3/33 Theology I |
| BTGE-3765 Theology II |
| ECON-3335 Intermediate Microeconomics |
| ECON-3345 Intermediate Macroeconomics3 |
| FIN-3710 Principles of Finance3 |
| MGMT-3500 Principles of Organization and Management3 |
| MRKT-3600 Principles of Marketing |
| Concentration Electives 9 |
| General Electives |
| |
| Total |
| Fourth year: |
| |
| ECON/HIST-3340 History of Economic Thought |
| ECON/PUAD-3390 Public Finance |
| MGMT-4510 Strategic Management3 |
| Concentration Electives |
| General Electives4 |
| Science/Mathematics Elective3 |
| Total |

School of Business Administration Finance

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.

Course requirements involve 63 semester hours including:

| ACCT-2110 Principles of Accounting I | 3 |
|--|----------------|
| ACCT-2120 Principles of Accounting II | |
| BUS-1000 The Business Profession | |
| BUS-2150 Statistics for Business | |
| BUS-2180 Business Law | |
| BUS-3000 The Business Experience | |
| BUS-3150 Operations Analysis | |
| BUS-3910 International Business | 3 |
| BUS-4420 Business Ethics and Social Responsibility | |
| ECON-2330 Microeconomics | |
| ECON-2340 Macroeconomics | |
| FIN-3310 Money and Financial Markets | 3 |
| FIN-3710 Principles of Finance | |
| FIN-3730 Investments | |
| FIN-4770 Advanced Financial Management | |
| MGMT-3500 Principles of Organization and Management | 3 |
| *MGMT-4510 Strategic Management | 3 |
| ITM-1500 Information Technology for Business | 2 |
| ITM-1510 Software Tools for Business | 2 |
| MRKT-3600 Principles of Marketing | 3 |
| Finance Electives selected from | |
| ACCT-3110 Intermediate Financial Accounting I | |
| FIN-3750 International Finance3 | |
| FIN-3760 Financial Planning3 | |
| FIN-3770 Security Analysis3 | |
| FIN-4715 Applied Portfolio Management (requires three | |
| one-hour credits)3 | |
| FIN-4750 Financial Institution Management3 | |
| *Capstone Course | |
| Required Cognate | 3 |
| GMTH-1020 College Algebra3 | |
| (Satisfies quantitative requirement for general education core.) | |
| | |
| Finance Major Curriculum Summary | |
| Proficiency Requirements0 | - 5 |



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

Suggested Four-Year Curriculum for a Major in Finance

| First year: |
|--|
| BTGE-1720 Spiritual Formation |
| BUS-1000 The Business Profession2 |
| COM-1100 Fundamentals of Speech |
| ENG-1400 Composition |
| GMTH-1020 College Algebra |
| OOO 4400 Delikies and Associates Outland |
| GSS-1100 Politics and American Culture |
| HUM-1400 Introduction to the Humanities3 |
| ITM-1500 Information Technology for Business2 |
| ITM-1510 Software Tools for Business2 |
| Biological Science Elective3.5 |
| Physical Science Elective |
| Total |
| 10(a) |
| Second year: |
| ACCT-2110 Principles of Accounting I |
| |
| ACCT-2120 Principles of Accounting II |
| BTGE-2730 Old Testament Literature3 |
| BTGE-2740 New Testament Literature3 |
| BUS-2150 Statistics for Business |
| BUS-2180 Business Law3 |
| ECON-2330 Microeconomics |
| ECON-2340 Macroeconomics |
| |
| PEF-1990 Physical Activity and the Christian Life2 |
| History Elective3 |
| Social Science Elective3 |
| Total |
| |
| Third year: |
| BTGE-3755 Theology I3 |
| BTGE-3765 Theology II |
| BUS-3000 The Business Experience |
| BUS-3150 Operations Analysis |
| BUS-3910 International Business |
| FIN-3310 Money and Financial Markets |
| FIN-3710 Principles of Finance |
| |
| FIN-3730 Investments |
| MGMT-3500 Principles of Organization and Management3 |
| MRKT-3600 Principles of Marketing3 |
| Humanities Elective |
| Finance Electives |
| Total |
| 10tti |
| Fourth year: |
| BUS-4420 Business Ethics and Social Responsibility2 |
| FIN-4770 Advanced Financial Management |
| |
| MGMT-4510 Strategic Management |
| LIT-2XXX Literature Elective |
| Finance Electives6 |
| Electives |
| Total 21 |

School of Business Administration Global Business

Global Business

The **global business major** falls under the Bachelor of Arts degree and provides students with a global view of business. Utilizing courses in business, culture, and language, this program prepares business-oriented students for careers that involve global business interactions or working abroad.

| Global Studies core | |
|---|----|
| | 15 |
| ANTH-1800 Cultural Anthropology3 | |
| BTPA-2260 World Religions3 | |
| BUS-3910 International Business | |
| COM-2140 Intercultural Communication | |
| INTL-3190 Global Issues | |
| Global Studies Area focus (choose one)16- | 17 |
| Area Studies — Asia | • |
| **CHN-1100 Elementary Chinese I4 | |
| **CHN-1200 Elementary Chinese II | |
| ECON-3380 Economic Development and Political Economy 3 | |
| LICT 2010 History and Politics of Asia | |
| HIST-3210 History and Politics of Asia | |
| LIT-3460 Contemporary East Asian Literature | |
| Area Studies — Latin America | |
| ECON-3380 Economic Development and Political Economy 3 | |
| INTL-3200 History and Politics of Latin America | |
| ***SPAN-2710 Intermediate Spanish I | |
| ***SPAN-2720 Intermediate Spanish II | |
| SPAN-3640 Introduction to Hispanic Literature3 | |
| Area Studies — Middle East | |
| **ARBC-1410 Elementary Arabic I4 | |
| **ARBC-1420 Elementary Arabic II4 | |
| ECON-3380 Economic Development and Political Economy 3 | |
| INTL-3220 History and Politics of Middle East3 | |
| LIT-2330 World Mythology3 | |
| Area Studies – Western Europe | |
| ECON-3380 Economic Development and Political Economy 3 | |
| ***FREN/SPAN/GER-2XXX Intermediate Foreign Language 4 | |
| ***FREN/SPAN/GER-2XXX Intermediate Foreign Language 3 | |
| INTL-3230 History and Politics of Western Europe | |
| LIT-2330 World Mythology3 | |
| Global Business core | |
| | 30 |
| ACCT-2110 Principles of Accounting I | 39 |
| ACCT-2110 Principles of Accounting I | 39 |
| ACCT-2120 Principles of Accounting II | 39 |
| ACCT-2120 Principles of Accounting II | 39 |
| ACCT-2120 Principles of Accounting II | 39 |
| ACCT-2120 Principles of Accounting II | 39 |
| ACCT-2120 Principles of Accounting II 3 BUS-1000 The Business Profession 2 BUS-2150 Statistics for Business 3 BUS-2180 Business Law I 3 BUS-3000 The Business Experience 1 | 39 |
| ACCT-2120 Principles of Accounting II 3 BUS-1000 The Business Profession 2 BUS-2150 Statistics for Business 3 BUS-2180 Business Law I 3 BUS-3000 The Business Experience 1 BUS-4420 Business Ethics and Social Responsibility 2 | 39 |
| ACCT-2120 Principles of Accounting II 3 BUS-1000 The Business Profession 2 BUS-2150 Statistics for Business 3 BUS-2180 Business Law I 3 BUS-3000 The Business Experience 1 BUS-4420 Business Ethics and Social Responsibility 2 ECON-2330 Microeconomics 3 | 39 |
| ACCT-2120 Principles of Accounting II 3 BUS-1000 The Business Profession 2 BUS-2150 Statistics for Business 3 BUS-2180 Business Law I 3 BUS-3000 The Business Experience 1 BUS-4420 Business Ethics and Social Responsibility 2 ECON-2330 Microeconomics 3 ECON-2340 Macroeconomics 3 | 39 |
| ACCT-2120 Principles of Accounting II 3 BUS-1000 The Business Profession 2 BUS-2150 Statistics for Business 3 BUS-2180 Business Law I 3 BUS-3000 The Business Experience 1 BUS-4420 Business Ethics and Social Responsibility 2 ECON-2330 Microeconomics 3 ECON-2340 Macroeconomics 3 FIN-3710 Principles of Finance 3 | 39 |
| ACCT-2120 Principles of Accounting II 3 BUS-1000 The Business Profession 2 BUS-2150 Statistics for Business 3 BUS-2180 Business Law I 3 BUS-3000 The Business Experience 1 BUS-4420 Business Ethics and Social Responsibility 2 ECON-2330 Microeconomics 3 ECON-2340 Macroeconomics 3 FIN-3710 Principles of Finance 3 ITM-1500 Information Technology for Business 2 | 39 |
| ACCT-2120 Principles of Accounting II 3 BUS-1000 The Business Profession 2 BUS-2150 Statistics for Business 3 BUS-2180 Business Law I 3 BUS-3000 The Business Experience 1 BUS-4420 Business Ethics and Social Responsibility 2 ECON-2330 Microeconomics 3 ECON-2340 Macroeconomics 3 FIN-3710 Principles of Finance 3 ITM-1500 Information Technology for Business 2 ITM-1510 Software Tools for Business 2 | 39 |
| ACCT-2120 Principles of Accounting II | 39 |
| ACCT-2120 Principles of Accounting II 3 BUS-1000 The Business Profession 2 BUS-2150 Statistics for Business 3 BUS-2180 Business Law I 3 BUS-3000 The Business Experience 1 BUS-4420 Business Ethics and Social Responsibility 2 ECON-2330 Microeconomics 3 ECON-2340 Macroeconomics 3 FIN-3710 Principles of Finance 3 ITM-1500 Information Technology for Business 2 ITM-1510 Software Tools for Business 2 MGMT-3500 Principles of Organization and Management 3 *MGMT-4510 Strategic Management 3 | 39 |
| ACCT-2120 Principles of Accounting II 3 BUS-1000 The Business Profession 2 BUS-2150 Statistics for Business 3 BUS-2180 Business Law I 3 BUS-3000 The Business Experience 1 BUS-4420 Business Ethics and Social Responsibility 2 ECON-2330 Microeconomics 3 ECON-2340 Macroeconomics 3 FIN-3710 Principles of Finance 3 ITM-1500 Information Technology for Business 2 ITM-1510 Software Tools for Business 2 MGMT-3500 Principles of Organization and Management 3 *MGMT-4510 Strategic Management 3 MRKT-3600 Principles of Marketing 3 | |
| ACCT-2120 Principles of Accounting II 3 BUS-1000 The Business Profession 2 BUS-2150 Statistics for Business 3 BUS-2180 Business Law I 3 BUS-3000 The Business Experience 1 BUS-4420 Business Ethics and Social Responsibility 2 ECON-2330 Microeconomics 3 ECON-2340 Macroeconomics 3 FIN-3710 Principles of Finance 3 ITM-1500 Information Technology for Business 2 ITM-1510 Software Tools for Business 2 MGMT-3500 Principles of Organization and Management 3 *MGMT-4510 Strategic Management 3 MRKT-3600 Principles of Marketing 3 Global Business concentration (choose one) 3 | |
| ACCT-2120 Principles of Accounting II 3 BUS-1000 The Business Profession 2 BUS-2150 Statistics for Business 3 BUS-2180 Business Law I 3 BUS-3000 The Business Experience 1 BUS-4420 Business Ethics and Social Responsibility 2 ECON-2330 Microeconomics 3 ECON-2340 Macroeconomics 3 FIN-3710 Principles of Finance 3 ITM-1500 Information Technology for Business 2 ITM-1510 Software Tools for Business 2 MGMT-3500 Principles of Organization and Management 3 *MGMT-4510 Strategic Management 3 MRKT-3600 Principles of Marketing 3 Global Business concentration (choose one) Accounting concentration | |
| ACCT-2120 Principles of Accounting II | |
| ACCT-2120 Principles of Accounting II 3 BUS-1000 The Business Profession 2 BUS-2150 Statistics for Business 3 BUS-2180 Business Law I 3 BUS-3000 The Business Experience 1 BUS-4420 Business Ethics and Social Responsibility 2 ECON-2330 Microeconomics 3 ECON-2340 Macroeconomics 3 FIN-3710 Principles of Finance 3 ITM-1500 Information Technology for Business 2 ITM-1510 Software Tools for Business 2 IMGMT-3500 Principles of Organization and Management 3 *MGMT-4510 Strategic Management 3 MRKT-3600 Principles of Marketing 3 Global Business concentration 3 Accounting concentration ACCT-3110 Intermediate Financial Accounting I 3 ACCT-3120 Intermediate Financial Accounting II 3 ACCT-4220 International Accounting 3 Economics concentration 3 | |
| ACCT-2120 Principles of Accounting II 3 BUS-1000 The Business Profession 2 BUS-2150 Statistics for Business 3 BUS-2180 Business Law I 3 BUS-3000 The Business Experience 1 BUS-4420 Business Ethics and Social Responsibility 2 ECON-2330 Microeconomics 3 ECON-2340 Macroeconomics 3 FIN-3710 Principles of Finance 3 ITM-1500 Information Technology for Business 2 ITM-1510 Software Tools for Business 2 IMGMT-3500 Principles of Organization and Management 3 *MGMT-4510 Strategic Management 3 MRKT-3600 Principles of Marketing 3 Global Business concentration 3 Accounting concentration ACCT-3110 Intermediate Financial Accounting I 3 ACCT-3120 Intermediate Financial Accounting II 3 ACCT-4220 International Accounting 3 Acconomics concentration 3 ECON-3335 Intermediate Microeconomics 3 | |
| ACCT-2120 Principles of Accounting II 3 BUS-1000 The Business Profession 2 BUS-2150 Statistics for Business 3 BUS-2180 Business Law I 3 BUS-3000 The Business Experience 1 BUS-4420 Business Ethics and Social Responsibility 2 ECON-2330 Microeconomics 3 ECON-2340 Macroeconomics 3 FIN-3710 Principles of Finance 3 ITM-1500 Information Technology for Business 2 ITM-1510 Software Tools for Business 2 IMGMT-3500 Principles of Organization and Management 3 *MGMT-4510 Strategic Management 3 MRKT-3600 Principles of Marketing 3 Global Business concentration Accounting concentration ACCT-3110 Intermediate Financial Accounting I 3 ACCT-3120 Intermediate Financial Accounting II 3 ACCT-4220 International Accounting 3 ACCT-3335 Intermediate Microeconomics 3 ECON-3340 History of Economic Thought 3 | |
| ACCT-2120 Principles of Accounting II 3 BUS-1000 The Business Profession 2 BUS-2150 Statistics for Business 3 BUS-2180 Business Law I 3 BUS-3000 The Business Experience 1 BUS-4420 Business Ethics and Social Responsibility 2 ECON-2330 Microeconomics 3 ECON-2340 Macroeconomics 3 FIN-3710 Principles of Finance 3 ITM-1500 Information Technology for Business 2 ITM-1510 Software Tools for Business 2 IMGMT-3500 Principles of Organization and Management 3 *MGMT-4510 Strategic Management 3 MRKT-3600 Principles of Marketing 3 Global Business concentration 3 Accounting concentration ACCT-3110 Intermediate Financial Accounting I 3 ACCT-3120 Intermediate Financial Accounting II 3 ACCT-4220 International Accounting 3 ACCT-3335 Intermediate Microeconomics 3 ECON-3340 History of Economic Thought 3 ECON-3350 Comparative Economic Systems 3 | |
| ACCT-2120 Principles of Accounting II 3 BUS-1000 The Business Profession 2 BUS-2150 Statistics for Business 3 BUS-2180 Business Law I 3 BUS-3000 The Business Experience 1 BUS-4420 Business Ethics and Social Responsibility 2 ECON-2330 Microeconomics 3 ECON-2340 Macroeconomics 3 FIN-3710 Principles of Finance 3 ITM-1500 Information Technology for Business 2 ITM-1510 Software Tools for Business 2 IMGMT-3500 Principles of Organization and Management 3 *MGMT-4510 Strategic Management 3 MRKT-3600 Principles of Marketing 3 Global Business concentration 3 Accounting concentration ACCT-3110 Intermediate Financial Accounting I 3 ACCT-3120 Intermediate Financial Accounting II 3 ACCT-4220 International Accounting 3 Acconomics concentration 3 ECON-3335 Intermediate Microeconomics 3 | |

| Entrepreneurship concentration |
|--|
| MGMT-3511 Entrepreneurship and Small Business Strategy 3 |
| MGMT-3512 Entrepreneurship and Small Business Finance 3 |
| MGMT-3570 International Management |
| MDKT 4600 International Marketing |
| MRKT-4620 International Marketing |
| Finance concentration |
| FIN-3310 Money and Financial Markets |
| FIN-3730 Investments |
| FIN-3750 International Finance |
| FIN-4770 Advanced Financial Management3 |
| Information Technology Management concentration |
| ITM-1900 Fundamentals of IT Management3 |
| ITM-2100 Database Management3 |
| ITM-3400 Data Communications and Networking3 |
| ITM-3600 Business Process Management3 |
| Management concentration |
| MGMT-3530 Human Resources Management3 |
| MGMT-3550 Organizational Behavior3 |
| MGMT-3570 International Management3 |
| MGMT-4550 Applied Leadership3 |
| Marketing concentration |
| MRKT-3610 Sales/Sales Management Systems3 |
| MRKT-3650 Consumer Behavior3 |
| MRKT-4610 Marketing Strategy3 |
| MRKT-4620 International Marketing3 |
| Sport Managment concentration |
| SMGT-2100 Sport in Society3 |
| SMGT-2500 Organizational Behavior in Sport |
| SMGT-4100 Sponsorship and Promotion in Sport Industry 3 |
| SMGT-4200 Financing Sport Operations |
| *Capstone Course |
| **or other approved language and equivalent to two semesters of university study |
| ***or other approved language and equivalent to four semesters of university study |
| The state of the s |
| In addition to these requirements, students must fulfill an eight-week foreign culture |
| |

In addition to these requirements, students must fulfill an eight-week foreign culture experience. Possible options include: study abroad or foreign internships Approval should be obtained from the School of Business Associate Dean. This requirement is generally not fulfilled by travel overseas or minimum Missions Involvement Services experience.

Global Business Curriculum Summary:

| Proficiency Requirements | 0–5 |
|--|-------|
| Other General Education Requirements | |
| Global Studies Requirements | 31–32 |
| Global Business Requirements | |
| Required Cognate | |
| General Electives | |
| Total (minimum, not including proficiency) | 128 |

School of Business Administration Global Business

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

Suggested Four-Year Curriculum for a Major in Global Business

| First year: ANTH-1800 Cultural Anthropology 3 BTGE-1720 Spiritual Formation 3 BTGE-2730 Old Testament Literature 3 BUS-1000 The Business Profession 2 COM-1100 Fundamentals of Speech 3 ENG-1400 Composition 3 GMTH-1020 College Algebra 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 ITM-1500 Information Technology for Business 2 ITM-1510 Software Tools for Business 2 Biology Elective 3.5 Total 33.5 |
|--|
| Second year: 3 ACCT-2110 Principles of Accounting I 3 ACCT-2120 Principles of Accounting II 3 BTGE-2740 New Testament Literature 3 BTGE-3755 Theology I 3 BTPA-2260 World Religions 3 BUS-2150 Statistics for Business 3 COM-2140 Intercultural Communication 3 ECON-2330 Microeconomics 3 PEF-1990 Physical Activity and the Christian Life 2 MRKT-3600 Principles of Marketing 3 Global Studies Area Focus 3 LIT-2XXX Literature Elective 3 Total 35 |
| Third year: BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-4420 Business Ethics and Social Responsibility 2 ECON-2340 Macroeconomics 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Organization and Management 3 Global Studies Area Focus 8-9 Global Studies Concentration Requirements 3 Electives 3-4 Total 30 |
| Fourth year: BUS-2180 Business Law 3 BUS-3910 International Business 3 INTL-3190 Global Issues 3 MGMT-4510 Strategic Management 3 Global Studies Area Focus 5 Global Studies Concentration Requirements 9 Physical Science Elective 3.5 Total 29.5 |







School of Business Administration Information Technology Management

Information Technology Management

The **information technology management major** falls under the Bachelor of Arts degree and prepares students for careers such as application developers, business analysts, database administrators, network administrators, IT project managers, or IT consultants. The curriculum follows recent guidelines established by the Association for Information Systems (AIS) and the Association for Computing Machinery (ACM) for the training of IT professionals in a business context.

| Course requirements involve 69 semester hours including: | _ |
|---|--|
| ACCT-2110 Principles of Accounting I | |
| ACCT-2120 Principles of Accounting II | 3 |
| BUS-1000 The Business Profession | |
| BUS-2150 Statistics for Business | |
| BUS-2180 Business Law | 3 |
| BUS-3000 The Business Experience | |
| BUS-3910 International Business | |
| BUS-4420 Business Ethics and Social Responsibility | 2 |
| ECON-2330 Microeconomics | 3 |
| FIN-3710 Principles of Finance | 3 |
| ITM-1500 Information Technology for Business | 2 |
| ITM-1510 Software Tools for Business | 2 |
| ITM-1900 Fundamentals of IT Management | 3 |
| ITM-2100 Database Management | |
| ITM-2300 Introduction to Programming | |
| ITM-3400 Data Communications and Networking | 3 |
| ITM-3550 Enterprise Architecture | |
| ITM-4400 System Analysis and Design | 3 |
| *ITM-4900 IT Strategy | 3 |
| MGMT-3500 Principles of Organization and Management | |
| MRKT-3600 Principles of Marketing | |
| Information Technology Management Track (choose one | of |
| the following tracks) | 12 |
| Application Developer Track | 12 |
| ITM-3300 Advanced Topics in Programming Languages 3 | |
| | |
| | |
| ITM-3450 IT Security and Risk Management | 3 |
| ITM-3450 IT Security and Risk Management | 3 3 |
| ITM-3450 IT Security and Risk Management | 3 3 3 |
| ITM-3450 IT Security and Risk Management | 3 3 3 12 |
| ITM-3450 IT Security and Risk Management | 3 3 3 12 3 |
| ITM-3450 IT Security and Risk Management ITM-3500 Web Development ITM-4500 System Development Business Analyst Track ITM-3600 Business Process Management ITM-3650 Enterprise Systems | 3 3 3 12 3 |
| ITM-3450 IT Security and Risk Management ITM-3500 Web Development ITM-4500 System Development Business Analyst Track ITM-3600 Business Process Management ITM-3650 Enterprise Systems ITM-4100 Advanced Database Design | 3 3 3 12 3 3 |
| ITM-3450 IT Security and Risk Management ITM-3500 Web Development ITM-4500 System Development Business Analyst Track ITM-3600 Business Process Management ITM-3650 Enterprise Systems ITM-4100 Advanced Database Design ITM-4450 IT Audit and Controls | 3 3 3 12 3 3 3 |
| ITM-3450 IT Security and Risk Management ITM-3500 Web Development ITM-4500 System Development Business Analyst Track ITM-3600 Business Process Management ITM-3650 Enterprise Systems ITM-4100 Advanced Database Design ITM-4450 IT Audit and Controls Database Administrator Track | 3 3 12 3 3 3 3 3 |
| ITM-3450 IT Security and Risk Management ITM-3500 Web Development ITM-4500 System Development Business Analyst Track ITM-3600 Business Process Management ITM-3650 Enterprise Systems. ITM-4100 Advanced Database Design ITM-4450 IT Audit and Controls Database Administrator Track ITM-3450 IT Security and Risk Management | 3 3 12 3 3 3 3 12 |
| ITM-3450 IT Security and Risk Management ITM-3500 Web Development ITM-4500 System Development Business Analyst Track ITM-3600 Business Process Management ITM-3650 Enterprise Systems. ITM-4100 Advanced Database Design ITM-4450 IT Audit and Controls Database Administrator Track ITM-3450 IT Security and Risk Management ITM-3650 Enterprise Systems. | 3 3 12 3 3 3 3 12 |
| ITM-3450 IT Security and Risk Management ITM-3500 Web Development ITM-4500 System Development Business Analyst Track ITM-3600 Business Process Management ITM-3650 Enterprise Systems. ITM-4100 Advanced Database Design ITM-4450 IT Audit and Controls Database Administrator Track ITM-3450 IT Security and Risk Management ITM-3650 Enterprise Systems. ITM-4100 Advanced Database Design | 3 3 12 3 3 3 3 12 3 3 |
| ITM-3450 IT Security and Risk Management ITM-3500 Web Development ITM-4500 System Development Business Analyst Track ITM-3600 Business Process Management ITM-3650 Enterprise Systems. ITM-4100 Advanced Database Design ITM-4450 IT Audit and Controls Database Administrator Track ITM-3450 IT Security and Risk Management ITM-3650 Enterprise Systems. ITM-4100 Advanced Database Design ITM-4450 IT Audit and Controls | 3 3 3 12 3 3 3 3 12 3 3 3 |
| ITM-3450 IT Security and Risk Management ITM-3500 Web Development ITM-4500 System Development Business Analyst Track ITM-3600 Business Process Management ITM-3650 Enterprise Systems. ITM-4100 Advanced Database Design ITM-4450 IT Audit and Controls Database Administrator Track ITM-3450 IT Security and Risk Management ITM-3650 Enterprise Systems. ITM-4100 Advanced Database Design ITM-4450 IT Audit and Controls ITM-4450 IT Audit and Controls ITM-4450 IT Audit and Controls Network Administrator Track | 3 3 3 12 3 3 3 12 3 3 3 3 3 |
| ITM-3450 IT Security and Risk Management ITM-3500 Web Development ITM-4500 System Development Business Analyst Track ITM-3600 Business Process Management ITM-3650 Enterprise Systems. ITM-4100 Advanced Database Design ITM-4450 IT Audit and Controls Database Administrator Track ITM-3450 IT Security and Risk Management ITM-3650 Enterprise Systems. ITM-4100 Advanced Database Design ITM-4450 IT Audit and Controls ITM-4450 IT Audit and Controls ITM-4450 IT Audit and Controls ITM-4450 IT Security and Risk Management ITM-3450 IT Security and Risk Management | 3 3 3 12 3 3 3 12 3 3 3 3 |
| ITM-3450 IT Security and Risk Management ITM-3500 Web Development ITM-4500 System Development Business Analyst Track ITM-3600 Business Process Management ITM-3650 Enterprise Systems. ITM-4100 Advanced Database Design ITM-4450 IT Audit and Controls Database Administrator Track ITM-3450 IT Security and Risk Management ITM-3650 Enterprise Systems. ITM-4100 Advanced Database Design ITM-4100 Advanced Database Design ITM-4450 IT Audit and Controls Network Administrator Track ITM-3450 IT Security and Risk Management ITM-4450 IT Audit and Controls | 3 3 12 3 3 3 3 12 3 3 3 3 3 |
| ITM-3450 IT Security and Risk Management ITM-3500 Web Development ITM-4500 System Development Business Analyst Track ITM-3600 Business Process Management ITM-3650 Enterprise Systems ITM-4100 Advanced Database Design ITM-4450 IT Audit and Controls Database Administrator Track ITM-3450 IT Security and Risk Management ITM-3650 Enterprise Systems ITM-4100 Advanced Database Design ITM-4450 IT Audit and Controls ITM-4450 IT Audit and Controls Network Administrator Track ITM-3450 IT Security and Risk Management ITM-3450 IT Security and Risk Management ITM-3450 IT Security and Risk Management ITM-4450 IT Audit and Controls ITM-3XXX or higher electives | 3 3 12 3 3 3 3 12 3 3 3 3 3 3 3 3 3 3 3 |
| ITM-3450 IT Security and Risk Management ITM-3500 Web Development ITM-4500 System Development Business Analyst Track ITM-3600 Business Process Management ITM-3650 Enterprise Systems ITM-4100 Advanced Database Design ITM-4450 IT Audit and Controls Database Administrator Track ITM-3450 IT Security and Risk Management ITM-3650 Enterprise Systems ITM-4100 Advanced Database Design ITM-4450 IT Audit and Controls ITM-4450 IT Audit and Controls Network Administrator Track ITM-3450 IT Security and Risk Management ITM-3450 IT Security and Risk Management ITM-4450 IT Audit and Controls ITM-3450 IT Security and Risk Management ITM-3450 IT Audit and Controls | 3 3 3 12 3 3 3 12 3 3 3 12 3 3 3 |
| ITM-3450 IT Security and Risk Management ITM-3500 Web Development ITM-4500 System Development Business Analyst Track ITM-3600 Business Process Management ITM-3650 Enterprise Systems. ITM-4100 Advanced Database Design ITM-4450 IT Audit and Controls Database Administrator Track ITM-3450 IT Security and Risk Management ITM-3650 Enterprise Systems. ITM-4100 Advanced Database Design ITM-4450 IT Audit and Controls ITM-4450 IT Audit and Controls ITM-3450 IT Security and Risk Management ITM-3450 IT Security and Risk Management ITM-3450 IT Security and Risk Management ITM-4450 IT Audit and Controls ITM-3450 IT Audit and Controls ITM-3600 Business Process Management | 3 3 3 12 3 3 3 12 3 3 12 3 3 12 |
| ITM-3450 IT Security and Risk Management ITM-3500 Web Development ITM-4500 System Development Business Analyst Track ITM-3600 Business Process Management ITM-3650 Enterprise Systems ITM-4100 Advanced Database Design ITM-4450 IT Audit and Controls Database Administrator Track ITM-3450 IT Security and Risk Management ITM-3650 Enterprise Systems ITM-4100 Advanced Database Design ITM-4450 IT Audit and Controls ITM-4450 IT Audit and Controls Network Administrator Track ITM-3450 IT Security and Risk Management ITM-4450 IT Audit and Controls ITM-3450 IT Security and Risk Management ITM-3450 IT Audit and Controls ITM-3500 IT Audit and Controls ITM-3600 Business Process Management ITM-4450 IT Audit and Controls | 3 3 3 12 3 3 3 12 3 3 3 12 3 3 3 3 3 3 3 |
| ITM-3450 IT Security and Risk Management ITM-3500 Web Development ITM-4500 System Development Business Analyst Track ITM-3600 Business Process Management ITM-3650 Enterprise Systems ITM-4100 Advanced Database Design ITM-4450 IT Audit and Controls Database Administrator Track ITM-3450 IT Security and Risk Management ITM-3650 Enterprise Systems ITM-4100 Advanced Database Design ITM-4450 IT Audit and Controls ITM-4450 IT Audit and Controls Network Administrator Track ITM-3450 IT Security and Risk Management ITM-3450 IT Security and Risk Management ITM-4450 IT Audit and Controls ITM-3XXX or higher electives ITM-3600 Business Process Management ITM-4450 IT Audit and Controls ITM-3450 IT Audit and Controls ITM-3600 Business Process Management ITM-4450 IT Audit and Controls ITM-3XXX or higher electives | 3 3 3 12 3 3 3 12 3 3 3 12 3 3 3 3 3 3 3 |
| ITM-3450 IT Security and Risk Management ITM-3500 Web Development ITM-4500 System Development Business Analyst Track ITM-3600 Business Process Management ITM-3650 Enterprise Systems. ITM-4100 Advanced Database Design ITM-4450 IT Audit and Controls Database Administrator Track. ITM-3450 IT Security and Risk Management ITM-3650 Enterprise Systems. ITM-4100 Advanced Database Design ITM-4450 IT Audit and Controls Network Administrator Track ITM-3450 IT Security and Risk Management ITM-3450 IT Audit and Controls ITM-3450 IT Security and Risk Management ITM-4450 IT Audit and Controls ITM-3XXX or higher electives ITM-3600 Business Process Management ITM-4450 IT Audit and Controls ITM-3450 IT Audit and Controls ITM-3450 IT Audit and Controls ITM-3600 Business Process Management ITM-4450 IT Audit and Controls ITM-3XXX or higher electives ITM-3XXX or higher electives | 3 3 3 12 3 3 3 12 3 3 12 3 3 12 3 3 5 12 |
| ITM-3450 IT Security and Risk Management ITM-3500 Web Development ITM-4500 System Development Business Analyst Track ITM-3600 Business Process Management ITM-3650 Enterprise Systems ITM-4100 Advanced Database Design ITM-4450 IT Audit and Controls Database Administrator Track ITM-3450 IT Security and Risk Management ITM-3650 Enterprise Systems ITM-4100 Advanced Database Design ITM-4450 IT Audit and Controls Network Administrator Track ITM-3450 IT Security and Risk Management ITM-3450 IT Audit and Controls ITM-3450 IT Security and Risk Management ITM-3450 IT Security and Risk Management ITM-3450 IT Audit and Controls ITM-3XXX or higher electives ITM-3600 Business Process Management ITM-3500 Business Process Management ITM-3600 Business Process Management ITM-3600 Business Process Management ITM-3600 Business Process Management | 3 3 3 12 3 3 3 12 3 3 3 5 12 3 3 3 5 12 3 3 |
| ITM-3450 IT Security and Risk Management ITM-3500 Web Development ITM-4500 System Development Business Analyst Track ITM-3600 Business Process Management ITM-3650 Enterprise Systems. ITM-4100 Advanced Database Design ITM-4450 IT Audit and Controls Database Administrator Track. ITM-3450 IT Security and Risk Management ITM-3650 Enterprise Systems. ITM-4100 Advanced Database Design ITM-4450 IT Audit and Controls Network Administrator Track ITM-3450 IT Security and Risk Management ITM-3450 IT Audit and Controls ITM-3450 IT Security and Risk Management ITM-4450 IT Audit and Controls ITM-3XXX or higher electives ITM-3600 Business Process Management ITM-4450 IT Audit and Controls ITM-3450 IT Audit and Controls ITM-3450 IT Audit and Controls ITM-3600 Business Process Management ITM-4450 IT Audit and Controls ITM-3XXX or higher electives ITM-3XXX or higher electives | 3 3 3 12 3 3 3 12 3 3 3 5 12 3 3 3 5 12 3 3 |

Information Technology Management Major Curriculum Summary

| Proficiency Requirements | 0–5 |
|--|-----|
| General Education Requirements | |
| Information Systems Major Requirements | 69 |
| Required Cognate | |
| Electives | 0–8 |
| Total (minimum, not including proficiency) | 128 |

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

Suggested Four-Year Curriculum for a Major in Information Technology Management

| First year: |
|--|
| BTGE-1720 Spiritual Formation3 |
| BUS-1000 The Business Profession |
| COM-1100 Fundamentals of Speech |
| |
| ENG-1400 Composition |
| GMTH-1020 College Algebra3 |
| GSS-1100 Politics and American Culture |
| HUM-1400 Introduction to the Humanities3 |
| ITM-1500 Information Technology for Business2 |
| ITM-1510 Software Tools for Business2 |
| ITM-1900 Fundamentals of IT Management3 |
| Humanities Elective3 |
| Total |
| Second year: |
| ACCT-2110 Principles of Accounting I |
| ACCT-2120 Principles of Accounting II |
| BTGE-2730 Old Testament Literature |
| |
| BTGE-2740 New Testament Literature |
| BUS-2150 Statistics for Business |
| BUS-2180 Business Law3 |
| ITM-2100 Database Management3 |
| ITM-2300 Introduction to Programming3 |
| PEF-1990 Physical Activity and the Christian Life2 |
| Biological Science Elective3.5 |
| Social Science Elective3 |
| Total |
| Third year: |
| BTGE-3755 Theology I3 |
| DTGE-3/33 THEOlogy T |
| |
| BTGE-3765 Theology II |
| BTGE-3765 Theology II |
| BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 |
| BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 ECON-2330 Microeconomics 3 |
| BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 ECON-2330 Microeconomics 3 FIN-3710 Principles of Finance 3 |
| BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 ECON-2330 Microeconomics 3 FIN-3710 Principles of Finance 3 ITM-3400 Data Communications and Networking 3 |
| BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 ECON-2330 Microeconomics 3 FIN-3710 Principles of Finance 3 ITM-3400 Data Communications and Networking 3 ITM-3550 Enterprise Architecture 3 |
| BTGE-3765 Theology II |
| BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 ECON-2330 Microeconomics 3 FIN-3710 Principles of Finance 3 ITM-3400 Data Communications and Networking 3 ITM-3550 Enterprise Architecture 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 |
| BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 ECON-2330 Microeconomics 3 FIN-3710 Principles of Finance 3 ITM-3400 Data Communications and Networking 3 ITM-3550 Enterprise Architecture 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 ITM Track Electives 6 |
| BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 ECON-2330 Microeconomics 3 FIN-3710 Principles of Finance 3 ITM-3400 Data Communications and Networking 3 ITM-3550 Enterprise Architecture 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 |
| BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 ECON-2330 Microeconomics 3 FIN-3710 Principles of Finance 3 ITM-3400 Data Communications and Networking 3 ITM-3550 Enterprise Architecture 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 ITM Track Electives 6 Total 34 |
| BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 ECON-2330 Microeconomics 3 FIN-3710 Principles of Finance 3 ITM-3400 Data Communications and Networking 3 ITM-3550 Enterprise Architecture 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 ITM Track Electives 6 Total 34 Fourth year: |
| BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 ECON-2330 Microeconomics 3 FIN-3710 Principles of Finance 3 ITM-3400 Data Communications and Networking 3 ITM-3550 Enterprise Architecture 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 ITM Track Electives 6 Total 34 Fourth year: BUS-4420 Business Ethics and Social Responsibility 2 |
| BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 ECON-2330 Microeconomics 3 FIN-3710 Principles of Finance 3 ITM-3400 Data Communications and Networking 3 ITM-3550 Enterprise Architecture 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 ITM Track Electives 6 Total 34 Fourth year: BUS-4420 Business Ethics and Social Responsibility 2 ITM-4400 Systems Analysis and Design 3 |
| BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 ECON-2330 Microeconomics 3 FIN-3710 Principles of Finance 3 ITM-3400 Data Communications and Networking 3 ITM-3550 Enterprise Architecture 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 ITM Track Electives 6 Total 34 Fourth year: BUS-4420 Business Ethics and Social Responsibility 2 ITM-4400 Systems Analysis and Design 3 ITM-4900 IT Strategy 3 |
| BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 ECON-2330 Microeconomics 3 FIN-3710 Principles of Finance 3 ITM-3400 Data Communications and Networking 3 ITM-3550 Enterprise Architecture 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 ITM Track Electives 6 Total 34 Fourth year: BUS-4420 Business Ethics and Social Responsibility 2 ITM-4400 Systems Analysis and Design 3 ITM-4900 IT Strategy 3 ITM Track Electives 6 |
| BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 ECON-2330 Microeconomics 3 FIN-3710 Principles of Finance 3 ITM-3400 Data Communications and Networking 3 ITM-3550 Enterprise Architecture 3 MGMT-3500 Principles of Organization and Management 3 ITM Track Electives 6 Total 34 Fourth year: BUS-4420 Business Ethics and Social Responsibility 2 ITM-4400 Systems Analysis and Design 3 ITM-4900 IT Strategy 3 ITM Track Electives 6 History Elective 3 |
| BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 ECON-2330 Microeconomics 3 FIN-3710 Principles of Finance 3 ITM-3400 Data Communications and Networking 3 ITM-3550 Enterprise Architecture 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 ITM Track Electives 6 Total 34 Fourth year: BUS-4420 Business Ethics and Social Responsibility 2 ITM-4400 Systems Analysis and Design 3 ITM-4900 IT Strategy 3 ITM Track Electives 6 History Elective 3 LIT-2XXX Literature Elective 3 |
| BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 ECON-2330 Microeconomics 3 FIN-3710 Principles of Finance 3 ITM-3400 Data Communications and Networking 3 ITM-3550 Enterprise Architecture 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 ITM Track Electives 6 Total 34 Fourth year: BUS-4420 Business Ethics and Social Responsibility 2 ITM-4400 Systems Analysis and Design 3 ITM-4900 IT Strategy 3 ITM Track Electives 6 History Elective 3 LIT-2XXX Literature Elective 3 Physical Science Elective 3.5 |
| BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 ECON-2330 Microeconomics 3 FIN-3710 Principles of Finance 3 ITM-3400 Data Communications and Networking 3 ITM-3550 Enterprise Architecture 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 ITM Track Electives 6 Total 34 Fourth year: BUS-4420 Business Ethics and Social Responsibility 2 ITM-4400 Systems Analysis and Design 3 ITM-4900 IT Strategy 3 ITM Track Electives 6 History Elective 3 LIT-2XXX Literature Elective 3 Physical Science Elective 3.5 Electives 8 |
| BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 ECON-2330 Microeconomics 3 FIN-3710 Principles of Finance 3 ITM-3400 Data Communications and Networking 3 ITM-3550 Enterprise Architecture 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 ITM Track Electives 6 Total 34 Fourth year: BUS-4420 Business Ethics and Social Responsibility 2 ITM-4400 Systems Analysis and Design 3 ITM-4900 IT Strategy 3 ITM Track Electives 6 History Elective 3 LIT-2XXX Literature Elective 3 Physical Science Elective 3.5 |

School of Business Administration Management

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 interests, whether it be human resources management, operations management, organizational leadership, or entrepreneurship and small business management.

| Course requirements involve 69 semester hours including: | |
|--|---|
| ACCT-2110 Principles of Accounting I | 3 |
| ACCT-2120 Principles of Accounting II | 3 |
| BUS-1000 The Business Profession | |
| BUS-2100 Business Communication | |
| BUS-2150 Statistics for Business | |
| BUS-2180 Business Law | |
| BUS-3000 The Business Experience | |
| BUS-3150 Operations Analysis | 3 |
| BUS-3910 International Business | |
| BUS-4420 Business Ethics and Social Responsibility | 2 |
| ECON-2330 Microeconomics | 3 |
| ECON-2340 Macroeconomics | 3 |
| FIN-3710 Principles of Finance | 3 |
| ITM-1500 Information Technology for Business | 2 |
| ITM-1510 Software Tools for Business | 2 |
| MGMT-3500 Principles of Organization and Management | 3 |
| MGMT-3560 Project Management | |
| *MGMT-4510 Strategic Management | 3 |
| MGMT-4550 Applied Leadership | 3 |
| MRKT-3600 Principles of Marketing | 3 |
| PWID-3010 Style and Mechanics for Writers | 3 |
| Management Operations elective from the following | 3 |
| MGMT-3520 Production and Operations Management 3 | |
| MGMT-4540 Service Operations Management3 | |
| Management Electives Tracks – choose one | 9 |
| Human Resource Management Track9 | , |
| MGMT-3530 Human Resource Management3 | |
| MGMT-3580 Compensation and Benefits Management3 | |
| MGMT-4530 Industrial Relations Management3 | |
| Operations Management Track9 | |
| ITM-3600 Business Process Management3 | |
| MGMT-4520 Supply Chain Management3 | |
| *Capstone Course | |
| Required Cognate | 3 |
| GMTH-1020 College Algebra3 | |
| (Satisfies quantitative requirement for general education core.) | |

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

Suggested Four-Year Curriculum for a Major in Management

| First year: BTGE-1720 Spiritual Formation 3 BUS-1000 The Business Profession 2 COM-1100 Fundamentals of Speech 3 ENG-1400 Composition 3 GMTH-1020 College Algebra 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 ITM-1500 Information Technology for Business 2 ITM-1510 Software Tools for Business 2 PEF-1990 Physical Activity and the Christian Life 2 History Elective 3 Physical Science Elective 3.5 Total 32.5 |
|--|
| Second year: 3 ACCT-2110 Principles of Accounting I 3 ACCT-2120 Principles of Accounting II 3 BTGE-2730 Old Testament Literature 3 BTGE-2740 New Testament Literature 3 BUS-2100 Business Communication 3 BUS-2150 Statistics for Business 3 BUS-2180 Business Law 3 ECON-2330 Microeconomics 3 ECON-2340 Macroeconomics 3 PWID-3010 Style and Mechanics for Writers 3 Total 30 |
| Third year: 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3150 Operations Analysis 3 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Organization and Management 3 MGMT-3520 Production and Operations Management 3 (or MGMT-4540 Service Operations Management 3 MRKT-3600 Principles of Marketing 3 Biological Science Elective 3.5 LIT-2XXX Literature Elective 3 Total 31.5 |
| Fourth year: BUS-4420 Business Ethics and Social Responsibility |

Management Major Curriculum Summary

School of Business Administration Marketing

Marketing

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

| Course requirements involve 63 semester hours including: | |
|--|---|
| ACCT-2110 Principles of Accounting I | 3 |
| ACCT-2120 Principles of Accounting II | (|
| BUS-1000 The Business Profession | 2 |
| BUS-2150 Statistics for Business | (|
| BUS-2180 Business Law | (|
| BUS-3000 The Business Experience | 1 |
| BUS-3910 International Business | |
| BUS-4420 Business Ethics and Social Responsibility | |
| ECON-2330 Microeconomics | 3 |
| ECON-2340 Macroeconomics | |
| FIN-3710 Principles of Finance | 3 |
| ITM-1500 Information Technology for Business | 2 |
| ITM-1510 Software Tools for Business | |
| MGMT-3500 Principles of Organization and Management | 3 |
| *MGMT-4510 Strategic Management | |
| MRKT-3600 Principles of Marketing | (|
| MRKT-3630 Marketing Research | (|
| MRKT-3650 Consumer Behavior | (|
| MRKT-4610 Marketing Strategy | (|
| Marketing electives selected from the following:1 | 2 |
| BUS-3514 Entrepreneurial Ventures in E-commerce 3 | |
| MRKT-3610 Sales/Sales Management Systems3 | |
| MRKT-3660 Integrated Marketing Communications 3 | |
| MRKT-3670 Business to Business Marketing 3 | |
| MRKT-3680 Nonprofit Marketing3 | |
| MRKT-3690 Services Marketing3 | |
| MRKT-4620 International Marketing 3 | |
| *Capstone Course | |

Required Cognate......3

GMTH-1020 College Algebra......3

(Satisfies quantitative requirement for general education core.)

Marketing Major Curriculum Summary

| Proficiency Requirements | 0-5 |
|--|-------|
| General Education Requirements | 48-56 |
| Marketing Major Requirements | 63 |
| Required Cognate | 3 |
| Electives | |
| Fotal (minimum, not including proficiency) | 128 |



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

Suggested Four-Year Curriculum for a Major in Marketing

| BTGE-1720 Spiritual Formation | |
|---|--|
| BUS-1000 The Business Profession2 | |
| COM-1100 Fundamentals of Speech | |
| ENG-1400 Composition | |
| GMTH-1020 College Algebra3 | |
| GSS-1100 Politics and American Culture | |
| | |
| HUM-1400 Introduction to the Humanities3 | |
| ITM-1500 Information Technology for Business2 | |
| ITM-1510 Software Tools for Business2 | |
| Biological Science Elective3.5 | |
| Physical Science Elective | |
| Total 31 | |
| | |
| Second year: | |
| ACCT-2110 Principles of Accounting I | |
| ACCT-2120 Principles of Accounting II | |
| BTGE-2730 Old Testament Literature3 | |
| BTGE-2740 New Testament Literature | |
| BUS-2150 Statistics for Business | |
| BUS-2180 Business Law | |
| ECON-2330 Microeconomics | |
| ECON-2340 Macroeconomics | |
| PEF-1990 Physical Activity and the Christian Life | |
| | |
| History Elective | |
| LIT-2XXX Literature Elective | |
| Total | |
| | |
| Third year: | |
| | |
| Third year: BTGE-3755 Theology I | |
| BTGÉ-3755 Theology I | |
| BTGÉ-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 | |
| BTGÉ-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 | |
| BTGÉ-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 | |
| BTGÉ-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Management 3 | |
| BTGÉ-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Management 3 | |
| BTGÉ-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Management 3 MRKT-3600 Principles of Marketing 3 MRKT-3630 Marketing Research 3 | |
| BTGÉ-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Management 3 MRKT-3600 Principles of Marketing 3 MRKT-3630 Marketing Research 3 | |
| BTGÉ-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Management 3 MRKT-3600 Principles of Marketing 3 MRKT-3630 Marketing Research 3 MRKT-3650 Consumer Behavior 3 | |
| BTGÉ-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Management 3 MRKT-3600 Principles of Marketing 3 MRKT-3630 Marketing Research 3 MRKT-3650 Consumer Behavior 3 Marketing Electives 6 | |
| BTGÉ-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Management 3 MRKT-3600 Principles of Marketing 3 MRKT-3630 Marketing Research 3 MRKT-3650 Consumer Behavior 3 Marketing Electives 6 Social Science Elective 3 | |
| BTGÉ-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Management 3 MRKT-3600 Principles of Marketing 3 MRKT-3630 Marketing Research 3 MRKT-3650 Consumer Behavior 3 Marketing Electives 6 | |
| BTGÉ-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Management 3 MRKT-3600 Principles of Marketing 3 MRKT-3630 Marketing Research 3 MRKT-3650 Consumer Behavior 3 Marketing Electives 6 Social Science Elective 3 Total 34 Fourth year: | |
| BTGÉ-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Management 3 MRKT-3600 Principles of Marketing 3 MRKT-3630 Marketing Research 3 MRKT-3650 Consumer Behavior 3 Marketing Electives 6 Social Science Elective 3 Total 34 Fourth year: | |
| BTGÉ-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Management 3 MRKT-3600 Principles of Marketing 3 MRKT-3630 Marketing Research 3 MRKT-3650 Consumer Behavior 3 Marketing Electives 6 Social Science Elective 3 Total 34 Fourth year: BUS-4420 Business Ethics and Social Responsibility 2 | |
| BTGÉ-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Management 3 MRKT-3600 Principles of Marketing 3 MRKT-3630 Marketing Research 3 MRKT-3650 Consumer Behavior 3 Marketing Electives 6 Social Science Elective 3 Total 34 Fourth year: BUS-4420 Business Ethics and Social Responsibility 2 MGMT-4510 Strategic Management 3 | |
| BTGÉ-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Management 3 MRKT-3600 Principles of Marketing 3 MRKT-3630 Marketing Research 3 MRKT-3650 Consumer Behavior 3 Marketing Electives 6 Social Science Elective 3 Total 34 Fourth year: BUS-4420 Business Ethics and Social Responsibility 2 MGMT-4510 Strategic Management 3 MRKT-4610 Marketing Strategy 3 | |
| BTGÉ-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Management 3 MRKT-3600 Principles of Marketing 3 MRKT-3630 Marketing Research 3 MRKT-3650 Consumer Behavior 3 Marketing Electives 6 Social Science Elective 3 Total 34 Fourth year: BUS-4420 Business Ethics and Social Responsibility 2 MGMT-4510 Strategic Management 3 MRKT-4610 Marketing Strategy 3 Marketing Electives 6 | |
| BTGÉ-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Management 3 MRKT-3630 Principles of Marketing 3 MRKT-3630 Marketing Research 3 MRKT-3650 Consumer Behavior 3 Marketing Electives 6 Social Science Elective 3 Total 34 Fourth year: BUS-4420 Business Ethics and Social Responsibility 2 MGMT-4510 Strategic Management 3 MRKT-4610 Marketing Strategy 3 Marketing Electives 6 Humanities Elective 3 | |
| BTGÉ-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Management 3 MRKT-3600 Principles of Marketing 3 MRKT-3630 Marketing Research 3 MRKT-3650 Consumer Behavior 3 Marketing Electives 6 Social Science Elective 3 Total 34 | |

School of Business Administration Sport Business Management

Sport Business Management

The **sport business management major** prepares graduates to pursue career opportunities across a wide spectrum of the sport industry from amateur, collegiate, professional, or corporate sport settings; and from roles in management, marketing, finance, compliance, journalism, or law. The curriculum follows guidelines established by the Association of Collegiate Business Schools and Profession and the Commission on Sport Management Accreditation.

| Course requirements involve 68 semester hours including: ACCT-2110 Principles of Accounting I | 0 |
|---|---|
| ACC 1-2110 Principles of Accounting 1 | პ |
| BUS-1000 Business Profession | 2 |
| BUS-2100 Business Communication | |
| BUS-2150 Statistics for Business | |
| BUS-3910 International Business | |
| BUS-4420 Business Ethics and Social Responsibility | |
| BUS-XXXX School of Business Electives | |
| ECON-2110 Essentials of Economics | |
| ITM-1500 Information Technology for Business | |
| ITM-1510 Software Tools for Business | |
| MGMT-3500 Principles of Organization and Management | |
| MRKT-3600 Principles of Marketing | |
| SMGT-1350 Introduction to Sport Management | |
| SMGT-2100 Sport in Society | პ |
| SMGT-2500 Organizational Behavior in Sport | |
| SMGT-2910 Campus Sport Management Practicum | |
| SMGT-2920 Recreation Management Practicum | |
| SMGT-3180 Legal Issues in the Sport Industry | |
| SMGT-3200 Facility Design and Management | |
| SMGT-3300 Event Planning and Production | |
| SMGT-4100 Sponsorship and Promotion in the Sport Industry | 3 |
| SMGT-4200 Financing Sport Operations | |
| SMGT-4910 Athletic Administration Practicum | |
| *SMGT-4990 Internship in Sport Management | 9 |
| Deguined Compate | _ |
| Required Cognate | ა |
| GMTH-1020 College Algebra | |
| (Satisfies quantitative requirement for general education core.) | |
| *Capstone Course | |
| | |

Sport Business Management Major Curriculum Summary Proficiency Requirements.....0-5 General Education Requirements......48–56

Sport Management Major Requirements......68 Required Cognate......3 Electives1–9 Total (minimum, not including proficiency)128



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

Suggested Four-Year Curriculum for a **Major in Sport Business Management**

| First year: | |
|--|--|
| BTGE-1720 Spiritual Formation | 3 |
| BUS-1000 Business Profession | 2 |
| COM-1100 Fundamentals of Speech | 3 |
| ENG-1400 Composition | |
| GBIO-1000 Principles of Biology | 3.5 |
| GMTH-1020 College Algebra | 3 |
| ITM-1500 Information Technology for Business | ٥ |
| ITM-1510 Software Tools for Business | 2 |
| PEF-1990 Physical Activity and the Christian Life | 2 |
| | |
| SMGT-1350 Introduction to Sport Management | 3 |
| SMGT-2100 Sport in Society | 3 |
| Physical Science Elective | |
| Total | 33 |
| Construction of the contract o | |
| Second year: | _ |
| ACCT-2110 Principles of Accounting I | 3 |
| BTGE-2730 Old Testament Literature | |
| BTGE-2740 New Testament Literature | _ |
| BUS-2100 Business Communication | 3 |
| BUS-2150 Statistics for Business | 3 |
| ECON-2110 Essentials in Economics | 3 |
| HUM-1400 Introduction to the Humanities | 3 |
| SMGT-2500 Organizational Behavior in Sport | |
| SMGT-2910 Campus Sport Management Practicum | 1 |
| SMGT-2920 Recreation Management Practicum | 1 |
| Humanities Elective | |
| | |
| | |
| Total | |
| Total Third year: | 29 |
| Total Third year: | 29 |
| Total Third year: BTGE-3755 Theology I | 3 |
| Total Third year: BTGE-3755 Theology I BTGE-3765 Theology II | 3 3 |
| Total Third year: BTGE-3755 Theology I BTGE-3765 Theology II BUS-3910 International Business | 3 3 |
| Total Third year: BTGE-3755 Theology I BTGE-3765 Theology II BUS-3910 International Business GSS-1100 Politics and American Culture | 3 3 3 |
| Total | 3 3 3 |
| Total Third year: BTGE-3755 Theology I BTGE-3765 Theology II BUS-3910 International Business GSS-1100 Politics and American Culture MGMT-3500 Principles of Organization and Management MRKT-3600 Principles of Marketing | 3 3 3 3 |
| Total | 3 3 3 3 |
| Total Third year: BTGE-3755 Theology I | 3 3 3 3 3 |
| Total Third year: BTGE-3755 Theology I | 3 3 3 3 3 3 |
| Total | 333333333 |
| Total | 333333333 |
| Total Third year: BTGE-3755 Theology I | 3 3 3 3 3 3 3 |
| Total Third year: BTGE-3755 Theology I | 3 3 3 3 3 3 3 |
| Total Third year: BTGE-3755 Theology I | 33333333 |
| Total Third year: BTGE-3755 Theology I | 333333333333 |
| Total Third year: BTGE-3755 Theology I | 333333333333 |
| Total | 3333333333 |
| Total | 333333333333333333 |
| Total | 333 |
| Total | 293333333333333333333 |
| Total | 293333333333333333333 |
| Total | 2933 |
| Total | 2933 |

School of Business Administration Minors

Minors

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

Business Administration Minor

| The minor in business administration for the non-business | |
|---|---|
| major involves 18 semester hours including: | |
| ACCT-2110 Principles of Accounting I | 3 |
| ECON-2330 Microeconomics | 3 |
| MGMT-3500 Principles of Organization and Management | 3 |
| MRKT-3600 Principles of Marketing | 3 |
| Business Administration electives selected from the | |
| following 2000- or 3000-level courses | 6 |
| ACCT-2120 Principles of Accounting II | 3 |
| BUS-2150 Statistics for Business | 3 |
| BUS-2180 Business Law | 3 |
| BUS-3150 Operations Analysis | 3 |
| BUS-3910 International Business | |
| ECON-2340 Macroeconomics | 3 |
| FINI-3710 Principles of Finance | 3 |

Christian Ministries Management Minor

| The minor in Christian ministries management for the non- | |
|---|---|
| business 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 |
| ITM-1500 Information Technology for Business | 2 |
| ITM-1510 Software Tools for Business | 2 |
| MRKT-3680 Nonprofit Marketing | 3 |

Economics Minor

| The minor in economics involves 18 semester hours including: | |
|---|---|
| ECON-2330 Microeconomics | 3 |
| ECON-2340 Macroeconomics | 3 |
| ECON-3310 Money and Financial Markets | 3 |
| ECON-3335 Intermediate Microeconomics | |
| ECON-3350 Comparative Economic Systems | 3 |
| 3000- or 4000-Level Elective in Economics | 3 |
| | |

Entrepreneurship MinorThe minor in **entrepreneurship** involves 18 semester hours

| including: |
|--|
| ACCT-2110 Principles of Accounting I |
| BUS-3514 Entrepreneurial Ventures in E-commerce3 |
| MGMT-3510 Entrepreneurship and Small Business Management 3 |
| MGMT-3511 Entrepreneurship and Small Business Strategy3 |
| MGMT-3512 Entrepreneurship and Small Business Finance3 |
| MGMT-3513 Entrepreneurship and Small Business Practicum3 |

International Business Minor

| The minor in international business for the business major | |
|---|---|
| involves 18 semester hours including: | |
| BUS-3910 International Business | 3 |
| At least nine hours from the following | 9 |
| ECON-3350 Comparative Economic Systems | 3 |
| ECON-3360 International Trade and Economics | 3 |
| MGMT-3570 International Management | 3 |
| MRKT-4620 International Marketing | 3 |
| At least three hours from the following | |
| ANTH-1800 Cultural Anthropology | 3 |
| BTPA-2260 World Religions | |
| POLS-3650 International Relations | |
| Additional elective selected from courses listed above | 3 |

International Business for the Non-business Major Minor The minor in international business for the non-business

| major involves 21 semester hours including: | |
|---|------|
| BUS-3910 International Business | 3 |
| At least six hours from the following | 6 |
| ECON-2330 Microeconomics | 3 |
| ECON-2340 Macroeconomics | 3 |
| MGMT-3500 Principles of Organization and Manageme | nt 3 |
| MRKT-3600 Principles of Marketing | 3 |
| At least six hours from the following | |
| ECON-3350 Comparative Economic Systems | |
| ECON-3360 International Trade and Economics | |
| MGMT-3570 International Management | 3 |
| MRKT-4620 International Marketing | |
| Additional electives selected from courses listed above | |

Information Technology Management Minor

| The minor in information systems involves 22 semester hours |
|--|
| including: |
| ACCT-2110 Principles of Accounting I |

| ACCT-2110 Principles of Accounting I | 3 |
|---|---|
| MGMT-3500 Principles of Organization and Management | |
| ITM-1500 Information Technology for Business | 2 |
| ITM-1510 Software Tools for Business | 2 |
| ITM-1900 Fundamentals of IT Management | 3 |
| ITM-2100 Database Management | 3 |
| ITM-2300 Intro to Programming | 3 |
| (or ITM-3XXX ITM elective | |
| ITM-3400 Data Communications and Networking | 3 |

Marketing Minor

| The minor in marketing involves 15 semester hours in | cluding: |
|---|----------|
| MRKT-3600 Principles of Marketing | 3 |
| MRKT-3650 Consumer Behavior | 3 |
| Electives selected from | 9 |
| *MRKT-3630 Marketing Research | 3 |
| MRKT-3660 Integrated Marketing Communications | |
| MRKT-3680 Nonprofit Marketing | 3 |
| MRKT-3690 Services Marketing | |
| MRKT-4620 International Marketing | |
| *PLIC 0150 Statistics for Pusiness and CMTH 1000 Callege Algebra of | |

*BUS-2150 Statistics for Business and GMTH-1020 College Algebra are prerequisites.

Sport Management Minor

The purpose of the sport management minor is to allow students from other majors the opportunity to develop a foundation that will serve as the basis for a future career in sport such as high school athletic director or baseball announcer.

| one in the control of |
|--|
| SMGT-3200 Facility Design and Management3 |
| SMGT-3300 Event Planning and Production3 |
| SMGT-4100 Sponsorship and Promotion in the Sport Industry3 |
| Two courses selected from the following6 |
| SMGT-2100 Sport in Society3 |
| SMGT-2500 Organizational Behavior in Sport |
| SMGT-3180 Legal Issues in the Sport Industry 3 |
| SMGT-4200 Financing Sport Operations |



Department of Communication

| Mission Statement | 74 |
|--|----|
| Personal Requirements | 74 |
| Department Requirements | 74 |
| Technical Resources | 74 |
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| Career Opportunities | 75 |
| Faculty | 75 |
| Majors | |
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| » Journalism | 79 |
| » Professional Writing and Information | |
| Design | 80 |

Minors

| | » B | roadcasting and Digital Media Minor | 81 |
|---|------|-------------------------------------|-----|
| | » C | Comprehensive Communication Arts | |
| | N | 1inor | 81 |
| | » D | igital Film Minor | 81 |
| | » E | diting and Publishing Minor | 81 |
| | » Ir | ntercultural Communication Minor | 81 |
| | » N | Notion Graphics Minor | 81 |
| | » C | Organizational Communication Minor | 81 |
| | » P | ublic Relations Minor | 81 |
| | » V | Vriting for the Professions Minor | 81 |
|) | ера | rtment of Communication | |
| | C | Course Descriptions | 217 |

Department of Communication Mission Statement

Mission Statement

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

- Achieve excellence in communication skills and critical thinking.
- Foster a desire for knowledge and an enthusiasm for creative expression.
- Aid students in formulating problem-solving techniques in applied contexts.
- Encourage the evaluation of performance-based communication as a reflection of culture.
- Develop innovative leaders for positions in media, politics, business, and entertainment.

Personal Requirements

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

Department Requirements

Within each specific program of study, students complete courses in the history, theory, research, and ethics of their particular fields of communication. Students are required to complete a senior capstone project in research, production or an internship to graduate. The nature of the project is determined by the emphasis area of the student.

Technical Resources

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

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

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

Programs of Study

The Department of Communication offers the following programs of study:

Majors

- · Broadcasting and Digital Media
- Communication
- Journalism
- Professional Writing and Information Design

Minors

- Broadcasting and Digital Media
- Comprehensive Communication Arts
- Digital Film
- Editing and Publishing
- Intercultural Communication
- Motion Graphics
- Organizational Communication
- Public Relations
- Writing for the Professions

Cocurricular Opportunities

Cedars

Cedars is a student-produced newspaper and website with opportunities for editors, print reporters, multimedia reporters, photographers and graphic designers. It is advised by a journalism faculty member.

Debate

Cedarville University traditionally has had a successful debate program, 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), one of the largest debate organizations in the United States. The Debate Team has been ranked in the top 5 percent in the nation for the past four years, including the past two seasons, being ranked in the top 10 and fourth in the nation for the 2012–2013 season. Cedarville debaters are also the 2011 National Champions among Christian colleges and universities small schools division.

Filmgate

Filmgate is a student organization that offers opportunities to work on productions outside of class. Filmgate also strives to work with clients to provide an environment that realistically simulates the media industry pipeline.

Forensics

Forensics is intercollegiate speech competition, including events in public speaking, oral interpretation, limited preparation, and Lincoln-Douglas debate. 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, for audition information. Scholarships are available.

Society for Human Resource Management

Communication majors interested in organizational communication 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.

Society for Professional Writing

Serves students in the Professional Writing and Information Design major. It promotes communication in professional fields. Benefits of membership include job referral services, networking with professionals, and numerous social activities among faculty and students.



Department of Communication Career Opportunities

Resound Radio

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

Career Opportunities

Careers in communication are varied and vast. Graduates of this department excel in careers in public relations, personnel management, communication consulting, media communication, political communication, cross-cultural communication, and corporate education training.

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

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

Other career opportunities include:

- Actor
- · Advertising executive
- Anchorperson
- Business manager
- Communication consultant
- Communication statistician
- Community relations director
- Customer service representative
- Development officer
- Film director
- · Fund raiser
- Health services manager
- Human rights officer
- Journalist
- Labor relations consultant
- Legal communication consultant
- · Legislative correspondent
- Mediation specialist

Cedarville since 1977.

- News director
- Nonprofit organization director
- Political campaign director
- Political analyst
- Politician
- Publications editor
- · Public information officer
- Publicist
- Radio talk-show host
- Recording company executive
- · Sales/marketing rep.
- Seminar leader
- · Sports announcer
- Technical communication
- Technical marketing communication
- Web design

Heather Heritage, Assistant Professor of Communication. *Education:* B.S., Youngstown State, 2002; M.A., University of Dayton, 2011. At Cedarville since 2011.

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

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

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

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

Sarah Murphy, Instructor of Communication. *Education*: B.A., Cedarville University, 2010; M.S., Drexel University, 2015. At Cedarville since 2015.

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

Jeffrey Simon, Assistant Chair, Assistant Professor of Communication. Education: B.A., Cedarville University, 2006; M.F.A., Academy of Art University, 2013. At Cedarville since 2010.

Technical Support Staff

Shawn Rifner, Studio and Technology Manager. *Education*: B.A., Cedarville University, 2012.. At Cedarville since 2016.

Emeriti

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

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

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

Faculty

Derrick Green, Chair; Assistant Professor of Communication; Director of Forensics. Education: B.A., Cedarville University, 1997; M.A., Miami University, 1999. At Cedarville since 2002.

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

Nicholas Carrington, Assistant Professor of Technical Communication. *Education*: B.A., Cedarville University, 2010; M.A., Missouri State University, 2012. At Cedarville since 2012. Charles Elliott, Professor of Communication. *Education*: B.A., Cedarville University, 1977; M.A., Temple University, 1984; Ph.D.,

Temple University, 1994. At Cedarville since 2003. **Jeffrey Gilbert**, Assistant Professor of Journalism, Cedars Adviser. *Education:* B.A., Cedarville University, 1987; M.A., Regent University, 2014. At Cedarville since 2009.

Sandra Harner, Senior Professor of Technical Communication. *Education:* B.A., Cedarville University, 1964; M.A., University of Dayton, 1981. At Cedarville since 1981.



Department of Communication Broadcasting and Digital Media

Broadcasting and Digital Media

The **broadcasting and digital 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, video/film production, and a program of study designed by the student and faculty members to meet his or her specific life goal.

Internships are strongly recommended but are dependent upon faculty approval, availability, and placement.

Course requirements involve 53-54 semester hours including:

| Core Requirements | 32-33 |
|---|-------|
| BRDM-1110 Introduction to Broadcasting and Digital Media. | 3 |
| BRDM-1120 Audio Technical Training | 3 |
| BRDM-2110 Video Technical Training | |
| BRDM-2130 Writing for Electronic Media | 3 |
| (or BRDM-3330 Screenwriting | 2) |
| (or BRDM/JOUR 3605 Writing and Design | |
| Web/Mobile Media | 3) |
| BRDM-2810 Sophomore Seminar | 1 |
| BRDM-3111 Survey Research for Electronic Media | 3 |
| (or BRDM-3611 Web Analytics | 3) |
| BRDM/JOUR-3150 Media Ethics | 2 |
| BRDM-3151 Christian Approaches to Electronic Media | |
| BRDM/JOUR-3650 Networked Audience | |
| BRDM-4110 Electronic Media Law and Regulation | |
| BRDM/JOUR-4650 Designing Solutions for New Audiences | 3 |
| BRDM-4810 Senior Seminar | 1 |
| Select one of the following, with approval of faculty 3 | |
| *BRDM-4920 Senior Project | .3 |
| *BRDM-4930 Electronic Media Internship3-1 | 2 |
| Concentration colored from the following | 21 |
| Concentration selected from the following Digital Film and Video concentration | |
| BRDM-2320 Preproduction and Planning for Video/Film | |
| BRDM-3210 Digital Audio Post Production | |
| (or BRDM-3216 Audio for Video and Film | .S |
| (or THTR-2430 Acting I | 3) |
| BRDM-3310 Digital Film Production | 3 |
| BRDM-3355 VFX and Compositing for TV and Film | |
| BRDM-3620 Digital Compression and Streaming | |
| BRDM-4310 Advanced Cinematography and Lighting | |
| Practica – three hours selected from the following | |
| *BRDM-3731 Video Production Practicum | |
| *BRDM-3733 Sports Production Practicum | |
| *BRDM-3734 Film Practicum1 | |
| Digital Radio and Audio concentration | . 21 |
| BRDM-1210 Media Performance | .3 |
| BRDM-3210 Digital Audio Post-Production | |
| BRDM-3215 Live Sound | |

Select one set of courses approved by advisor.....12

| Set one: | |
|---|-----|
| BRDM-3410 Electronic Media Sales | . 3 |
| THTR-1410 Introduction to Theatre | . 3 |
| THTR-2410 Advanced Performance Techniques | . 3 |
| THTR-2430 Acting I | . 3 |
| Set two: | |
| BRDM-2220 Sound Design | . 3 |
| BRDM-3211 Digital Music Production | |
| BRDM-3216 Audio for Video/Film | |
| BRDM-3720 Audio Production Practicum (1 hour ea | ch; |
| 3 hours required) | . 3 |
| | |
| Integrated Digital Media concentration | |
| BRDM-3210 Digital Audio Post Production | |
| BRDM-3310 Digital Film Production | |
| Digital Media Electives | 15 |
| | |

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

Broadcasting and Digital Media Major Curriculum Summary

| Total (minimum, not including proficiency) | 128 |
|---|-------|
| Electives | 15–24 |
| Broadcasting and Digital Media Major Requirements | 53–54 |
| General Education Requirements | 51–59 |
| Proficiency Requirements | 0–5 |

Electronic Media Advisory Board

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



^{*}Capstone Course

⁺Repeatable

Department of Communication Broadcasting and Digital Media

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

Suggested Four-Year Curriculum for a Major in Broadcasting and Digital Media

| First year: BTGE-1720 Spiritual Formation COM-1100 Fundamentals of Speech BRDM-1110 Introduction to Broadcasting and Digital Media BRDM-1120 Audio Technical Training ENG-1400 Composition. GSS-1100 Politics and American Culture. HUM-1400 Introduction to the Humanities. PEF-1990 Physical Activity and the Christian Life Biological Science Elective. History Elective. Quantitative Elective. Total | 3333333333 |
|--|--------------------------|
| Second year: BTGE-2730 Old Testament Literature. BTGE-2740 New Testament Literature BRDM-2110 Video Technical Training. BRDM-2810 Sophomore Seminar. BRDM-XXXX Writing Option. Concentration Requirements. Physical Science Elective. LIT-2XXX Literature Elective. Total | 3 1 3 12 3.5 |
| Third year: BTGE-3755 Theology I BTGE-3765 Theology II BRDM-3150 Media Ethics. BRDM-3151 Christian Approaches to Electronic Media BRDM-3650 Networked Audience BRDM-XXXX Research Option Concentration Requirements Social Science/Global Awareness Elective Electives Total | 323366 |
| Fourth year: BRDM-4110 Electronic Media Law and Regulation BRDM 4650 Designing Solutions for New Audiences BRDM-4810 Senior Seminar BRDM-4920 Senior Project (or BRDM-4930 Electronic Media Internship Concentration Requirements Humanities Elective Electives Total | 3 3 .3–12) 3 |









Department of Communication Communication

Communication

The **communication major** was designed to prepare students with the foundations of the discipline and the transferrable skills to meet the demands of a dynamically new and changing convergent communication environment. Course work in the major develops critical competencies in leadership, problem-solving skills, critical thinking, creativity, and a broad range of communication skills necessary for advancement in both employment and graduate school contexts. Students work with an advisor to build a customized program of study to meet their particular life goals, selecting appropriate courses from the core curriculum and then defining specific courses to focus on a particular area of the field.

Course requirements involve 48 semester hours, including 25 semester hours in the core requirements and 23 semester hours in the selected concentration.

Course requirements involve 48 semester hours including: Communication requirements......25 COM-1150 Communication Seminar 1 (or COM-2320 Theories of Mass Media......3) COM-2200 Communication in Applied Contexts 3 COM-3100 Advanced Public Speaking.......3 COM-3240 Interpersonal Communication2 COM-3840 Media Analysis 3 (or BRDM-3611 Web Analytics.......3) COM-4850 Senior Seminar BRDM-4155 Image and Word in a Visual Culture......3 Concentration selected from the following......23 Organizational Communication concentration......23 COM-3230 Organizational Communication3 COM-3260 Organizational Negotiation3 COM-3330 Organizational Training......2 COM-4060 Organizational Leadership......3 COM-4950 Applied Capstone3 MGMT-3500 Principles of Organization and Management.3 MGMT-3530 Human Resources Management......3 (or COM-3350 Event Planning3) COM-2000 Persuasive Theory......3 COM-3810 Speechwriting for the Professional3 COM-4110 History of Public Address3 COM-4120 Contemporary Rhetoric3 COM-4610 Communication Ethics.....2 COM-4950 Applied Capstone3 *Electives6 *Electives are chosen by the student to meet his/her specific life goals and must be approved by the department Chair and the student's advisor. No 1000-level courses may apply. Strategic Communication Concentration......23 COM-2520 Virtual Communication3 COM-3350 Event Planning3 COM-4060 Organizational Leadership......3

 *Strategic communication electives are chosen by the student to meet his or her specific life goals and must be approved by the department Chair and the student's advisor. The electives may be from department approved specialization templates or developed in consultation with the student's advisor to meet particular goals. Additionally, the student must justify the exclusion of communication courses that appear to meet the life goal plan. No 1000-level courses may apply.

| Communication Major Curriculum Summary | |
|---|------------|
| Proficiency Requirements | 0–5 |
| General Education Requirements | 51–59 |
| Communication Major Requirements | 48 |
| Electives | 21-29 |
| Total (minimum, not including proficiency) | 128 |
| A complete description of the general education requirements is found o | n page 24. |

Suggested Four-Year Curriculum for a **Major in Communication** First year: BTGÉ-1720 Spiritual Formation3 COM-1100 Fundamentals of Speech......3 ENG-1400 Composition.....3 HUM-1400 Introduction to the Humanities......3 PEF-1990 Physical Activity and the Christian Life2 Biological Science Elective......3.5 History Elective......3 Second year: BTGE-2730 Old Testament Literature......3 BTGE-2740 New Testament Literature3 COM-2050 Communication Theory......3 (or COM-2320 Theories of Mass Media3) (or COM-3120 Argumentation.....3) COM-2220 Quantitative Research......3 (or COM-2225 Qualitative Research3) Social Science/Global Awareness Elective......3 Communication Concentration8 Total 32.5 Third year: COM-3240 Interpersonal Communication2 COM-3840 Media Analysis3 (or BRDM-3611 Web Analytics3) BRDM-4155 Image and Word in a Visual Culture......3 (or COM-3710 Narrative and Cultural Literacy3) Communication Concentration9 Fourth year: COM-4850 Senior Seminar1 COM-3100 Advanced Public Speaking......3 Humanities Elective3 Communication Concentration6

Department of Communication Journalism

Journalism

The **journalism major** prepares students for careers in a wide range of media — convergent journalism 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. Also, students must have a minimum GPA of 2.5.

Retention requirement at the end of fall semester of the sophomore year is a minimum GPA of 2.30 to continue.

Course requirements involve 51 semester hours: 32 semester hours of core courses and 19 hours of concentration.

*Capstone Course

Journalism Major Curriculum Summary

| Proficiency Requirements | 0–5 |
|--|-------|
| General Education Requirements | |
| Journalism Major Requirements | 51 |
| Minor or Support Field | 16–18 |
| Electives | 0–10 |
| Total (minimum, not including proficiency) | 128 |

'With the advice and consent of their advisor, all journalism students must declare a minor or support field that relates to their career plans. If an appropriate minor does not already exist, students and their advisor will come to an agreement on what the support field is and develop a list of the courses to be taken to complete that requirement. The minor or support field is submitted to the department Chair, who will approve and submit it to the Office of the Registrar to be part of the students' graduation audit.

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

Suggested Four-Year Curriculum for a Major in Journalism

| Major III Journalistii |
|---|
| First year: |
| BTGE-1720 Spiritual Formation |
| COM-1100 Fundamentals of Speech3 |
| ENG-1400 Composition |
| GSS-1100 Politics and American Culture |
| HUM-1400 Introduction to the Humanities |
| JOUR-1000 Introduction to Media Writing |
| PEF-1990 Physical Activity and the Christian Life2 |
| Biological Science Elective |
| History Elective3 |
| Quantitative Elective |
| Total |
| |
| Second year: |
| BTGE-2730 Old Testament Literature3 |
| BTGE-2740 New Testament Literature |
| COM-2510 Media History |
| JOUR/BRDM-3605 Writing and Design for Web/Mobile Media3 |
| LIT-2XXX Literature Elective3 |
| Concentration Requirements |
| Humanities Elective3 |
| Physical Science Elective |
| Minor or Support Field3 |
| Total30.5 |
| T1 : 1 |
| Third year: |
| BTGE-3755 Theology I |
| BTGE-3765 Theology II |
| JOUR-3150 Media Ethics |
| JOUR/BRDM-3650 Networked Audience |
| Concentration Requirements6 |
| Social Science/Global Awareness Elective |
| Minor or Support Field9 |
| Total32 |
| |
| Fourth year: |
| JOUR/BRDM-4650 Designing Solutions for New Audiences3 |
| JOUR-4950 Internship 6 Concentration Requirements 10 |
| Electives |
| Minor or Support Field4–6 |
| Total |
| ıvıaı |

Department of Communication Professional Writing and Information Design

Professional Writing and Information Design

The professional writing and information design major prepares students for positions as communication experts in a variety of industries. The major itself involves 58 semester hours in specific professional writing and information design courses.

| Professional Writing and Information Design Core58 |
|--|
| ENG-3070 English Grammar3 |
| PWID-2130 Introduction to Professional Writing |
| PWID-3000 Production Tools and Document Design3 |
| PWID-3010 Style and Mechanics for Writers3 |
| PWID-3020 Professional Portfolio Development I |
| PWID-3090 Marketing Communication |
| PWID-3170 The Professional Writer in a Corporate Culture 2 |
| PWID-3180 Visual Rhetoric3 |
| PWID-3210 Professional Editing3 |
| PWID-3250 Documentation Design3 |
| PWID-4010 Report Writing3 |
| PWID-4020 Professional Portfolio Development II |
| PWID-4050 Content Strategy and Development |
| PWID-4090 User Experience for the Web |
| PWID-4130 Instructional Design I |
| PWID-4140 Instructional Design II |
| PWID-4160 Professional Writing Internship |
| *PWID-4170 Special Topics |
| VCD-2600 Web Design I |
| Electives selected from the following6 |
| BRDM-3611 Web Analytics3 |
| COM-2050 Communication Theory3 |
| COM-2140 Intercultural Communication3 |
| COM-3100 Advanced Public Speaking3 |
| ENG-2230 Advanced Composition3 |
| JOUR-2500 Introduction to Public Relations3 |
| *Canetona Course |

*Capstone Course

Professional Writing and Information Design Major Curriculum Summary

| Proficiency Requirements | 0-5 |
|---|---------|
| Other General Education Requirements | .48-59 |
| Professional Writing and Information Design Requirements. | 58 |
| Electives | . 11–22 |
| Total (minimum, not including proficiency) | 128 |
| , , , | |

Professional Writing and Information Design Industry Advisory Board

The professional writing and information design industry advisory board aims to enable the department to adequately position the Professional Writing and Information Design major and its graduates for the future.

Scott Bennett, Procter and Gamble Jenn Himes, Nationwide Sylvia Miller, Elsevier Genelle Pretty, Parker Hannifin Corporation Matt Pretty, Hyland Software Jim Visgaitis, HP Enterprise Services A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Professional Writing and Information Design

| First year: |
|--|
| BTGE-1720 Spiritual Formation |
| COM-1100 Fundamentals of Speech |
| ENG-1400 Composition |
| ENG-3070 English Grammar |
| GSS-1100 Principles of Biology |
| HUM-1400 Introduction to the Humanities |
| PEF-1990 Physical Activity and the Christian Life |
| LIT-2XXX Literature Elective |
| PWID-3010 Style and Mechanics for Writers |
| Quantitative Elective3 |
| Total |
| Second year: |
| BTGE-2730 Old Testament Literature3 |
| BTGE-2740 New Testament Literature |
| PWID-2130 Introduction to Professional Writing |
| PWID-3000 Production Tools and Document Design |
| PWID-3020 Professional Portfolio Development I |
| PWID-3170 The Professional Writer in a Corporate Culture2 |
| PWID-3210 Professional Editing |
| PWID-3250 Documentation Design3 |
| PWID Electives0-3 |
| Humanities Elective3 |
| Electives5-8 |
| Total |
| 10tal |
| |
| Summer: |
| Summer: PWID-4160 Professional Writing Internship3 |
| Summer: |
| Summer: PWID-4160 Professional Writing Internship |
| Summer: PWID-4160 Professional Writing Internship |
| Summer: PWID-4160 Professional Writing Internship 3 Total 3 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 |
| Summer: 9WID-4160 Professional Writing Internship 3 Total 3 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 PWID-3090 Marketing Communication 3 |
| Summer: 3 PWID-4160 Professional Writing Internship 3 Total 3 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 PWID-3090 Marketing Communication 3 PWID-3180 Visual Rhetoric 3 |
| Summer: PWID-4160 Professional Writing Internship 3 Total 3 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 PWID-3090 Marketing Communication 3 PWID-3180 Visual Rhetoric 3 PWID-4050 Content Strategy and Development 3 |
| Summer: PWID-4160 Professional Writing Internship 3 Total 3 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 PWID-3090 Marketing Communication 3 PWID-3180 Visual Rhetoric 3 PWID-4050 Content Strategy and Development 3 PWID Electives 3 |
| Summer: PWID-4160 Professional Writing Internship 3 Total 3 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 PWID-3090 Marketing Communication 3 PWID-3180 Visual Rhetoric 3 PWID-4050 Content Strategy and Development 3 PWID Electives 3 VCD-2600 Web Design I 3 |
| Summer: PWID-4160 Professional Writing Internship 3 Total 3 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 PWID-3090 Marketing Communication 3 PWID-3180 Visual Rhetoric 3 PWID-4050 Content Strategy and Development 3 PWID Electives 3 VCD-2600 Web Design I 3 History Elective 3 |
| Summer: PWID-4160 Professional Writing Internship 3 Total 3 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 PWID-3090 Marketing Communication 3 PWID-3180 Visual Rhetoric 3 PWID-4050 Content Strategy and Development 3 PWID Electives 3 VCD-2600 Web Design I 3 History Elective 3 Physical Science Elective 3.5 |
| Summer: PWID-4160 Professional Writing Internship 3 Total 3 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 PWID-3090 Marketing Communication 3 PWID-3180 Visual Rhetoric 3 PWID-4050 Content Strategy and Development 3 PWID Electives 3 VCD-2600 Web Design I 3 History Elective 3 |
| Summer: PWID-4160 Professional Writing Internship 3 Total 3 Third year: 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 PWID-3090 Marketing Communication 3 PWID-3180 Visual Rhetoric 3 PWID-4050 Content Strategy and Development 3 PWID Electives 3 VCD-2600 Web Design I 3 History Elective 3 Physical Science Elective 3.5 Social Science/Global Awareness Elective 3 Total 30.5 |
| Summer: PWID-4160 Professional Writing Internship 3 Total 3 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 PWID-3090 Marketing Communication 3 PWID-3180 Visual Rhetoric 3 PWID-4050 Content Strategy and Development 3 PWID Electives 3 VCD-2600 Web Design I 3 History Elective 3 Physical Science Elective 3.5 Social Science/Global Awareness Elective 3 Total 30.5 |
| Summer: PWID-4160 Professional Writing Internship 3 Total 3 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 PWID-3090 Marketing Communication 3 PWID-3180 Visual Rhetoric 3 PWID-4050 Content Strategy and Development 3 PWID Electives 3 VCD-2600 Web Design I 3 History Elective 3 Physical Science Elective 3.5 Social Science/Global Awareness Elective 3 Total 30.5 Fourth year: PWID-4010 Report Writing 3 |
| Summer: PWID-4160 Professional Writing Internship 3 Total 3 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 PWID-3090 Marketing Communication 3 PWID-3180 Visual Rhetoric 3 PWID-4050 Content Strategy and Development 3 PWID Electives 3 VCD-2600 Web Design I 3 History Elective 3 Physical Science Elective 3 Social Science/Global Awareness Elective 3 Total 30.5 Fourth year: PWID-4010 Report Writing 3 PWID-4020 Professional Portfolio Development II 1 |
| Summer: PWID-4160 Professional Writing Internship 3 Total 3 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 PWID-3090 Marketing Communication 3 PWID-3180 Visual Rhetoric 3 PWID-4050 Content Strategy and Development 3 PWID Electives 3 VCD-2600 Web Design I 3 History Elective 3 Physical Science Elective 3 Social Science/Global Awareness Elective 3 Total 30.5 Fourth year: PWID-4010 Report Writing 3 PWID-4020 Professional Portfolio Development II 1 PWID-4090 User Experience for the Web 3 |
| Summer: PWID-4160 Professional Writing Internship 3 Total 3 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 PWID-3090 Marketing Communication 3 PWID-3180 Visual Rhetoric 3 PWID-4050 Content Strategy and Development 3 PWID Electives 3 VCD-2600 Web Design I 3 History Elective 3 Physical Science Elective 3.5 Social Science/Global Awareness Elective 3 Total 30.5 Fourth year: PWID-4010 Report Writing 3 PWID-4020 Professional Portfolio Development II 1 PWID-4090 User Experience for the Web 3 PWID-4130 Instructional Design I 3 |
| Summer: PWID-4160 Professional Writing Internship 3 Total 3 Third year: 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 PWID-3090 Marketing Communication 3 PWID-3180 Visual Rhetoric 3 PWID-4050 Content Strategy and Development 3 PWID Electives 3 VCD-2600 Web Design I 3 History Elective 3 Social Science Elective 3 Social Science/Global Awareness Elective 3 Total 30.5 Fourth year: PWID-4010 Report Writing 3 PWID-4020 Professional Portfolio Development II 1 PWID-4090 User Experience for the Web 3 PWID-4130 Instructional Design I 3 PWID-4140 Instructional Design II 3 |
| Summer: PWID-4160 Professional Writing Internship 3 Total 3 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 PWID-3090 Marketing Communication 3 PWID-3180 Visual Rhetoric 3 PWID-4050 Content Strategy and Development 3 PWID Electives 3 VCD-2600 Web Design I 3 History Elective 3 Physical Science Elective 3.5 Social Science/Global Awareness Elective 3 Total 30.5 Fourth year: PWID-4010 Report Writing 3 PWID-4020 Professional Portfolio Development II 1 PWID-4090 User Experience for the Web 3 PWID-4130 Instructional Design I 3 |

Department of Communication Minors

| Minors | Mation Cranbias Minor |
|--|--|
| | Motion Graphics Minor |
| Broadcasting and Digital Media Minor | Course requirements for the minor in motion graphics involve 17 |
| Course requirements for the minor in broadcasting and digital | semester hours selected from the following courses: |
| media involve 15 semester hours: | BRDM-2350 Introduction to Graphics for TV and Film |
| BRDM-1110 Introduction to Broadcasting and Digital Media3 | BRDM-2606 Introduction to Computer Animation |
| BRDM-1120 Audio Technical Training3 | BRDM-3355 VFX and Compositing for TV and Film |
| BRDM-2110 Video Technical Training3 | BRDM-3630 Principles of Computer Animation3 |
| BRDM-2130 Writing for Electronic Media3 | VCD-1000 Graphic Design for non-Majors3 |
| (or BRDM-3605 Writing and Design for Web and Mobile Media 3) | (or VCD-2400 Graphic Design I3) |
| BRDM-XXXX Broadcasting and Digital Media Electives3 | Production Electives selected from3 |
| | ART-2250 Creative Photography3 |
| Comprehensive Communication Arts Minor | BRDM-2110 Video Technical Training3 |
| Course requirements for the minor in comprehensive | BRDM-3310 Digital Film Production3 |
| communication arts involve 16 semester hours selected from the | |
| following courses: | Organizational Communication Minor |
| COM-2000 Persuasive Theory3 | Course requirements for the minor in organizational |
| COM-2050 Communication Theory3 | communication involve 17 semester hours selected from the |
| COM-2200 Communication in Applied Contexts3 | following courses: |
| COM-3100 Advanced Public Speaking3 | COM-2050 Communication Theory3 |
| COM-3240 Interpersonal Communication2 | COM-3230 Organizational Communication3 |
| COM-4110 History of Public Address3 | Electives selected from the following11 |
| COM-4120 Contemporary Rhetoric2 | BRDM-3611 Web Analytics |
| The contemporary randono minimum minim | COM-2200 Communication in Applied Contexts |
| Digital Film Minor | COM-3240 Interpersonal Communication |
| Course requirements for the minor in digital film involve 18 | COM-3250 Interviewing3 |
| semester hours selected from the following courses: | COM-3260 Organizational Negotiation |
| BRDM-2320 Preproduction and Planning for Film/Video3 | COM-3330 Organizational Training2 |
| BRDM-2350 Introduction to Graphics for TV and Film | COM-3350 Event Planning3 |
| | COM-4060 Organizational Leadership |
| BRDM-3210 Digital Audio Post Production | MGMT-3500 Principles of Organization and Management 3 |
| BRDM-3310 Digital Film Production | MGM1-3300 Filliciples of Organization and Management 3 |
| BRDM-3355 VFX and Compositing for TV and Film | Dublic Deletions Miner |
| BRDM-4310 Advanced Cinematography and Lighting3 | Public Relations Minor |
| Edition and Dublishing Miner | Course requirements for the minor in public relations involve |
| Editing and Publishing Minor | 19 semester hours selected from the following courses: |
| The editing and publishing minor is designed to prepare | JOUR-1000 Introduction to Media Writing |
| students for careers in the publishing field. Course requirements | JOUR-2500 Introduction to Public Relations |
| involve 19 credit hours including: | JOUR-3500 Public Relations Principles and Writing |
| ENG-3070 English Grammar3 | JOUR-4500 Public Relations Campaigns |
| PWID-3000 Production Tools and Document Design3 | JOUR-4550 Practicum in Public Relations |
| PWID-3010 Style and Mechanics for Writers3 | MRKT-3600 Principles of Marking3 |
| PWID-3210 Professional Editing3 | Electives selected from the following3 |
| PWID-XXXX Electives7 | BRDM-3611 Web Analytics3 |
| | COM-2000 Persuasive Theory3 |
| Intercultural Communication Minor | COM-2320 Theories of Mass Media3 |
| Course requirements for the minor in intercultural | COM-3230 Organizational Communication3 |
| communication involve 17 semester hours selected from the | COM-3350 Event Planning3 |
| following courses: | COM-3550 Advocacy Communication3 |
| COM-2140 Intercultural Communication3 | |
| COM-2300 Voices Of Diversity3 | Writing for the Professions Minor |
| COM-3150 Gender, Politics, and Communication3 | The writing for the professions minor is designed to prepare |
| COM-3240 Interpersonal Communication2 | students from a variety of majors to be better writers and to |
| COM-3710 Narrative and Cultural Literacy3 | acquire the professional skills required in a corporate setting. |
| One of the following courses3 | Course requirements involve 18 credit hours including: |
| THTR-2510 Theatre for Social Change3 | PWID-3000 Production Tools and Document Design3 |
| A departmental approved study abroad course3 | PWID-3010 Style and Mechanics for Writers3 |
| , | PWID-3090 Marketing Communication3 |
| | PWID-4010 Report Writing3 |
| | Two courses selected from the following6 |
| | PWID-3250 Documentation Design |
| | |

School of Education

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Mission Statement

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

School Distinctives

- Accreditation: Cedarville University is accredited by the Higher Learning Commission and National Council for the Accreditation of Teacher Education Council. The University's teacher preparation programs are approved by the Ohio Department of Higher Education.
- Each year approximately 10 percent of the senior education students pursue cross-cultural student teaching experiences.
 They teach under the supervision of experienced, certified teachers in approved, accredited, overseas institutions.
- The University's award-winning technology resources enable upper-level students to develop lessons and curriculum resource materials for K–12 partner schools. Because of training in the use of educational technology, graduates are sought by schools to help integrate technology into their curricula.
- Intensive clinical experiences accompany methods classes.
 As a result, many schools comment that Cedarville graduates possess experience and confidence uncommon in most first-year teachers.
- Cedarville's reputation for producing exceptional teachers generates significant demand from school systems. Each year Christian and public schools visit the campus to recruit teacher education graduates.

Licensure - Public Schools

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

All programs leading to licensure at Cedarville University are approved by the Ohio Department of Higher Education. Ohio bases its requirements and approval processes on standards set by the Council for the Accreditation of Teacher Preparation (CAEP). Cedarville is a member of CAEP. 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 continually changing; therefore, students who wish to teach outside of Ohio should obtain a current description of certification requirements from the department of education for each state in which they would like to teach. Most states have their certification requirements posted electronically. Graduates may transfer their State of Ohio teaching license to any state in the United States.

Individuals completing the program receive certification from the Association of Christian Schools International (ACSI). Christian schools around the world recognize this certification.

Demographic Profile

The demographic profile of program enrollees for the 2014–15 reporting period is:

| African American | 4 |
|--------------------------|-----|
| Asian | 2 |
| Hawaiian/Pacific Islands | 1 |
| Hispanic | 7 |
| International | 2 |
| Two or more | 8 |
| White | 284 |
| Native American | 0 |
| Unknown | 6 |
| Male | 76 |
| Female | 238 |

Personal Requirements

Students interested in the Teacher Education Program should enjoy the teaching and learning process and enjoy working with people. The best teachers are those who are lifelong learners and enjoy serving others; they are people who are motivated by making a difference in others' lives. Cedarville University desires to work with students who are becoming professionals in their treatment of others, in their dispositions, and in responsibility for tasks. Because of the increasingly stringent standards for teachers nationwide, teacher candidates must be able to demonstrate their preparedness to teach by achieving good grades and passing state-mandated assessments for teachers.

Cocurricular Opportunities

Numerous opportunities exist for tutoring in public schools, mentoring K–12 students, and becoming involved in local church ministries to children and adolescents. In addition, students may choose to join Chi Delta Epsilon, a student organization for Christian educators.

Teacher Education Program Admission Requirements

Students admitted to Cedarville University must also make application for formal admission to the Teacher Education Program (TEP) usually early in the junior 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 3.0 in all courses and 2.7 GPA in all TEP core curriculum courses. All TEP core courses must be completed with a grade of "C-" or higher.
- Minimum GPA of 2.5 in the teaching field content area(s), and content core for early childhood education.
- No grade of less than "C-" in teaching field or concentration area courses. For early childhood, middle childhood, and special education, this includes general education courses in the content areas of humanities, science, mathematics, and social science.
- 4. Minimum passing scores on the CASE exams.
- Satisfactory completion of all introductory field experiences: EDUC-1050 Preliminary Student Involvement.
- 6. Valid "No Record" background check for the state of Ohio and an additional FBI background check.
- Satisfactory referral letter from academic advisor and one external reference.

Teacher Education Program Retention and Completion Requirements

To maintain regular standing in the Teacher Education Program and/or to receive a degree, students must maintain and/or complete the following requirements:

Maintain a GPA of 3.0 or higher in all courses.

- Obtain a "C-" or higher in all methods courses.
- 2. Satisfactorily complete field and clinical experiences.
- 3. Earn a passing score on all state-required licensure assessments.
- 4. Satisfactorily complete the internship experience.

Test Pass Rates

For up-to-date testing pass rates and the Ohio educator preparation performance report see **cedarville.edu/ SOEaccreditation.**

Programs of Study

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

- Multi-Age Special Education Intervention Specialist-mild to moderate (K–12)
- 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 English, Literature, and Modern Languages, page 105)
 - · Life Science Education
 - Mathematics Education Integrated
 - · Physical Science Education
 - · Physics Education
 - Science Comprehensive Education Integrated (Department of Science and Mathematics, page 188)
 - Social Studies Education Integrated (Department of History and Government, page 121)
- Multi-Age Licensure (pre–K to grade 12)
 - · Health and Physical Education
 - Physical Education (Department of Kinesiology and Allied Health, page 128)
 - Music Education
 - (Department of Music and Worship, page 149)
 - Spanish Education (Department of English, Literature, and Modern
 - Bible Teacher Education (School of Biblical and Theological Studies, page 56)

Early Childhood Generalist Endorsement

Languages, page 108)

Students interested in the **early childhood education generalist endorsement** must possess or be working toward the completion of a degree and licensure requirements in early childhood education.

Career Opportunities

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

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

Faculty

Jeremy Érvin, *Dean*; Associate Professor of Education. *Education:* B.A., Cornerstone University, 1993; M.A., The Ohio State University, 2003; Ph.D., The Ohio State University, 2003. At Cedarville since 2013.

Ruth Sylvester, Assistant Dean for Graduate Programs;
Associate Professor of Education. Education: B.S., Tennessee
Temple University, 1981; M.Ed., University of South Florida, 1991;
Ph.D., University of South Florida, 2007. At Cedarville since 2013.
Eddie Baumann, Senior Professor of Education. Education: B.S.,
University of Wisconsin, 1983; M.S., University of Wisconsin, 1987;
Ph.D., University of Wisconsin, 1995. At Cedarville since 1993.
Terry Comers, Assistant Professor of Education. Education: B.A.,
Cedarville University, 1977; M.Ed., Wright State University, 1995.
At Cedarville since 2004.

Lori Ferguson, Assistant Professor of Education. *Education:* B.A., Cedarville University, 1998; M.S., University of Dayton, 2002. **Margaret Grigorenko**, Associate Professor of Education. *Education:* B.S., Bowling Green State University, 1978; M.Ed., Cedarville University, 1995; Ph.D., The Ohio State University, 2010. At Cedarville since 2006.

Stephen Gruber, 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.



School of Education General Education Requirements for Education Majors

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. **David Leitch**, Assistant Professor of Special Education. *Education*: B.S. Baptist Bible College of Pennsylvania, 1984; M.S., Central Michigan University, 1990; J.D., Cleveland State University, 1993; M.Ed., Cleveland State University, 2008. At Cedarville since 2012.

Brenda MacKay, Associate Professor of Education. *Education:* B.A., Oglethorpe University, 1965; M.A., University of Georgia, 1972; Ed.D., Bob Jones University, 1992. At Cedarville since 2000. **Lynn Roper**, Assistant Professor of Special Education. *Education:* B.S., Asbury College, 1988; Certification in Special Education, University of Kentucky, 1990; M.S.W., University of Kentucky, 2000; Graduate study in special education, University of Kentucky, 2005—present. At Cedarville since 2010.

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.

Emeriti

Merlin Ager, Professor Emeritus of Education. *Education:* B.A., Cedarville University, 1960; M.S., University of Wisconsin, 1962; Ph.D., The Ohio State University, 1967. At Cedarville 1964–75 and since 1978.

Sue Baker, Professor Emerita of Education. *Education*: B.S., Kent State University, 1968; M.Ed., Kent State University, 1972; Ed.D., University of Cincinnati, 1987. At Cedarville since 1978.

Sally Castle, Professor Emerita of Education. *Education:* B.S., Syracuse University, 1964; M.S., The University of Dayton, 1983; Ed.S., Wright State University, 1992; Ed.D., Nova Southeastern University, 1996. At Cedarville since 1994.

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

Beverly Monroe: Associate Professor Emerita of Education. *Education*: B.A., Shelton College, 1957; M.A., Wright State University, 1971; Ph.D., Miami University, 1985. At Cedarville since 1977.



General Education Requirements for Education Majors

Early Childhood Education (EC)
Middle Childhood Education (MC)

 Special Education — Intervention Specialist (SpE)

 Biblical and Theological Studies
 15

 BTGE-1720 Spiritual Formation
 3

 BTGE-2730 Old Testament Literature
 3

 BTGE-2740 New Testament Literature
 3

 BTGE-3755 Theology I
 3

 BTGE-3765 Theology II
 3

 Communication
 6

 COM-1100 Fundamentals of Speech
 3

 ENG-1400 English Composition
 3

 Humanities
 9-12

| EDUC-3100 Philosophical Foundations of Education | 3 |
|---|----|
| *HUM-1400 Introduction to the Humanities | 3 |
| *LIT-2300 Introduction to Literature | 3 |
| (or LIT-2340 Western Literature) | 3) |
| Physical Education | |
| PEF-1990 Physical Activity and the Christian Life | |
| Science and Mathematics | |
| | |

ESCI-2510 Introduction to Astronomy......4

Foreign Language0–8
See the global awareness section of the general education

*Content core courses for early childhood and special education

¹Students pursuing science concentration for middle childhood must take GSCI-1010 Principles of Earth Science.

²Students pursuing social studies concentration for middle childhood must take HIST-1110 United States History I.

Teacher Education Core

Required of all teacher education majors

| Teacher Education Core | 14 |
|---|----|
| EDSP-2100 Exceptionalities and Behavior | |
| EDUC-1000 The Education Profession | 2 |
| EDUC-1050 Preliminary Student Involvement | 0 |
| EDUC-2050 Teaching Diverse Learners | 2 |
| EDUC-2100 e-Learning for Educators | 3 |
| EDUC-2300 Assessment and Differentiation | 2 |
| EDUC-2500 Educational Psychology | |

School of Education Early Childhood Education

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 71 semester hours including: | |
|--|-----|
| Teacher Education Core (see page 85) | 14 |
| Early Childhood Foundations | 11 |
| EDEC-2100 Art and Music for Early Childhood | . 2 |
| EDEC-2300 Phonics and the Reading Process | . 4 |
| EDSP-2500 Survey of Intellectual and | |
| Developmental Disabilities | . 1 |
| ESED-2900 Health and Movement Education | . 2 |
| PYCH-2725 Child Development | . 2 |
| Early Childhood Methods I | 17 |
| EDEC-3500 Early Childhood Education | |
| EDEC-3600 Issues in Early Childhood Administration | . 3 |
| EDEC-3800 Teaching Reading and Lang. Arts: EC | . 4 |
| EDEC-3900 Kindergarten Field Experience | . 1 |
| EDEC-3950 Early Childhood Field Experience I | . 3 |
| EDSP-3100 Diagnostics and Intervention in Reading | . 3 |
| Early Childhood Methods II | 17 |
| EDEC-4000 Reading in the Content Area: EC | . 2 |
| EDEC-4100 Teaching Mathematics: EC | . 3 |
| EDEC-4200 Teaching Science: EC | . 3 |
| EDEC-4300 Teaching Social Studies: EC | |
| EDEC-4450 Early Childhood Field Experience II | |
| EDSP-4250 Communication, Collaboration, and Inclusion | |
| EDUC-3200 Faith and Learning Alignment | |
| Student Teaching | 12 |
| *EDEC-4900 Student Teaching and Seminar: EC | 12 |
| *Capstone Course | |
| Early Childhood Education Major Curriculum Summary | |
| Proficiency Requirements | 0–5 |
| | |

General Education Requirements......58–69

Endorsement (Grades 4–5)
The early childhood education generalist endorsement prepares teachers to work with students in grades 4 and 5.

| Early Childhood Education Generalist | |
|--|----|
| Endorsement courses | .9 |
| EDMC-2800 Development Issues in Young Adolescents 2 | |
| EDMC-3550 Curriculum and Instruction for Grades 4 and 5 3 | |
| EDMC-3970 Middle Childhood Clinical (grades 4 and 5) 2 | |
| HIST-2100 Ohio History for Educators | |
| The state of Ohio Early Childhood Generalist Endorsement (grades 4-5) is currently | y |
| under review by the Ohio Department of Higher Education. Pending their decision, | |

this endorsement may no longer be available for undergraduate students but available at the graduate level. The School of Education should be consulted on the

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

| First year: |
|---|
| BTGE-1720 Spiritual Formation3 |
| BTGE-2730 Old Testament Literature3 |
| COM-1100 Fundamentals of Speech3 |
| EDUC-1000 The Education Profession2 |
| EDUC-1800 Principles of Mathematics I0-3 |
| EDUC-2100 e-Learning for Educators3 |
| ENG-1400 Composition3 |
| GBIO-1000 Principles of Biology |
| GSCI-1010 Principles of Earth Science |
| PEF-1990 Physical Activity and the Christian Life2 |
| PYCH-2725 Child Development |
| History Elective |
| Total |
| Ισιαιστ |
| Second year: |
| BTGE-2740 New Testament Literature3 |
| BTGE-3755 Theology I |
| EDEC-2100 Art and Music for Early Childhood2 |
| EDEC-2300 Phonics and the Reading Process4 |
| EDSP-2100 Exceptionalities and Behavior |
| EDSP-2500 Survey of Intellectual and Developmental Disabilities 1 |
| EDUC-1050 Preliminary Student Involvement0 |
| EDUC-2050 Teaching Diverse Learners |
| EDUC-2300 reaching Diverse Learners |
| |
| EDUC-2800 Principles of Mathematics II |
| EDUC-3100 Philosophical Foundations of Education3 |
| |
| GSCI-2010 Physical Science for Teachers4 |
| GSCI-2010 Physical Science for Teachers |
| GSCI-2010 Physical Science for Teachers 4 Global Studies Elective 3 LIT-2XXX Literature Elective 3 |
| GSCI-2010 Physical Science for Teachers |
| GSCI-2010 Physical Science for Teachers 4 Global Studies Elective 3 LIT-2XXX Literature Elective 3 Total 35 |
| GSCI-2010 Physical Science for Teachers |
| GSCI-2010 Physical Science for Teachers 4 Global Studies Elective 3 LIT-2XXX Literature Elective 3 Total 35 Third year: BTGE-3765 Theology II 3 |
| GSCI-2010 Physical Science for Teachers 4 Global Studies Elective 3 LIT-2XXX Literature Elective 3 Total 35 Third year: BTGE-3765 Theology II 3 EDEC-3500 Early Childhood Education 3 |
| GSCI-2010 Physical Science for Teachers 4 Global Studies Elective 3 LIT-2XXX Literature Elective 3 Total 35 Third year: BTGE-3765 Theology II 3 EDEC-3500 Early Childhood Education 3 EDEC-3600 Issues in Early Childhood Administration 3 |
| GSCI-2010 Physical Science for Teachers 4 Global Studies Elective 3 LIT-2XXX Literature Elective 3 Total 35 Third year: BTGE-3765 Theology II 3 EDEC-3500 Early Childhood Education 3 EDEC-3600 Issues in Early Childhood Administration 3 EDEC-3800 Teaching Reading and Language Arts: EC 4 |
| GSCI-2010 Physical Science for Teachers 4 Global Studies Elective 3 LIT-2XXX Literature Elective 3 Total 35 Third year: BTGE-3765 Theology II BTGE-3500 Early Childhood Education 3 EDEC-3600 Issues in Early Childhood Administration 3 EDEC-3800 Teaching Reading and Language Arts: EC 4 EDEC-3900 Kindergarten Field Experience 1 |
| GSCI-2010 Physical Science for Teachers |
| GSCI-2010 Physical Science for Teachers 4 Global Studies Elective 3 LIT-2XXX Literature Elective 3 Total 35 Third year: BTGE-3765 Theology II BTGE-3500 Early Childhood Education 3 EDEC-3600 Issues in Early Childhood Administration 3 EDEC-3800 Teaching Reading and Language Arts: EC 4 EDEC-3900 Kindergarten Field Experience 1 EDEC-3950 Early Childhood Field Experience I 3 EDSP-3100 Diagnostics and Intervention in Reading 3 |
| GSCI-2010 Physical Science for Teachers |
| GSCI-2010 Physical Science for Teachers 4 Global Studies Elective 3 LIT-2XXX Literature Elective 3 Total 35 Third year: BTGE-3765 Theology II BTGE-3500 Early Childhood Education 3 EDEC-3600 Issues in Early Childhood Administration 3 EDEC-3800 Teaching Reading and Language Arts: EC 4 EDEC-3900 Kindergarten Field Experience 1 EDEC-3950 Early Childhood Field Experience I 3 EDSP-3100 Diagnostics and Intervention in Reading 3 EDUC-2400 Children's Literature 3 EDUC-2500 Educational Psychology 3 |
| GSCI-2010 Physical Science for Teachers |
| GSCI-2010 Physical Science for Teachers 4 Global Studies Elective 3 LIT-2XXX Literature Elective 3 Total 35 Third year: 35 BTGE-3765 Theology II 3 EDEC-3500 Early Childhood Education 3 EDEC-3600 Issues in Early Childhood Administration 3 EDEC-3800 Teaching Reading and Language Arts: EC 4 EDEC-3900 Kindergarten Field Experience 1 EDEC-3950 Early Childhood Field Experience I 3 EDSP-3100 Diagnostics and Intervention in Reading 3 EDUC-2400 Children's Literature 3 EDUC-2500 Educational Psychology 3 ESED-2900 Health and Movement Education 2 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 Total 34 |
| GSCI-2010 Physical Science for Teachers |
| GSCI-2010 Physical Science for Teachers 4 Global Studies Elective 3 LIT-2XXX Literature Elective 3 Total 35 Third year: BTGE-3765 Theology II BTGE-3500 Early Childhood Education 3 EDEC-3600 Issues in Early Childhood Administration 3 EDEC-3800 Teaching Reading and Language Arts: EC 4 EDEC-3900 Kindergarten Field Experience 1 EDEC-3950 Early Childhood Field Experience I 3 EDSP-3100 Diagnostics and Intervention in Reading 3 EDUC-2400 Children's Literature 3 EDUC-2500 Educational Psychology 3 ESED-2900 Health and Movement Education 2 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 Total 34 Fourth year: EDEC-4000 Reading in the Content Area: EC 2 |
| GSCI-2010 Physical Science for Teachers 4 Global Studies Elective 3 LIT-2XXX Literature Elective 3 Total 35 Third year: BTGE-3765 Theology II BTGE-3500 Early Childhood Education 3 EDEC-3600 Issues in Early Childhood Administration 3 EDEC-3800 Teaching Reading and Language Arts: EC 4 EDEC-3900 Kindergarten Field Experience 1 EDEC-3950 Early Childhood Field Experience I 3 EDSP-3100 Diagnostics and Intervention in Reading 3 EDUC-2400 Children's Literature 3 EDUC-2500 Educational Psychology 3 ESED-2900 Health and Movement Education 2 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 Total 34 Fourth year: EDEC-4000 Reading in the Content Area: EC 2 EDEC-4100 Teaching Mathematics: EC 3 |
| GSCI-2010 Physical Science for Teachers 4 Global Studies Elective 3 LIT-2XXX Literature Elective 3 Total 35 Third year: BTGE-3765 Theology II BTGE-3500 Early Childhood Education 3 EDEC-3600 Issues in Early Childhood Administration 3 EDEC-3800 Teaching Reading and Language Arts: EC 4 EDEC-3900 Kindergarten Field Experience 1 EDEC-3950 Early Childhood Field Experience I 3 EDP-3100 Diagnostics and Intervention in Reading 3 EDUC-2400 Children's Literature 3 EDUC-2500 Educational Psychology 3 ESED-2900 Health and Movement Education 2 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 Total 34 Fourth year: EDEC-4000 Reading in the Content Area: EC 2 EDEC-4100 Teaching Mathematics: EC 3 EDEC-4200 Teaching Science: EC 3 |
| GSCI-2010 Physical Science for Teachers 4 Global Studies Elective 3 LIT-2XXX Literature Elective 3 Total 35 Third year: BTGE-3765 Theology II BTGE-3500 Early Childhood Education 3 EDEC-3600 Issues in Early Childhood Administration 3 EDEC-3800 Teaching Reading and Language Arts: EC 4 EDEC-3900 Kindergarten Field Experience 1 EDEC-3950 Early Childhood Field Experience I 3 EDP-3100 Diagnostics and Intervention in Reading 3 EDUC-2400 Children's Literature 3 EDUC-2500 Educational Psychology 3 ESED-2900 Health and Movement Education 2 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 Total 34 Fourth year: EDEC-4000 Reading in the Content Area: EC 2 EDEC-4100 Teaching Mathematics: EC 3 EDEC-4200 Teaching Science: EC 3 EDEC-4300 Teaching Social Studies: EC 3 |
| GSCI-2010 Physical Science for Teachers 4 Global Studies Elective 3 LIT-2XXX Literature Elective 3 Total 35 Third year: 3 BTGE-3765 Theology II 3 EDEC-3500 Early Childhood Education 3 EDEC-3600 Issues in Early Childhood Administration 3 EDEC-3800 Teaching Reading and Language Arts: EC 4 EDEC-3950 Early Childhood Field Experience 1 EDEC-3950 Early Childhood Field Experience I 3 EDV-3100 Diagnostics and Intervention in Reading 3 EDUC-2400 Children's Literature 3 EDUC-2500 Educational Psychology 3 ESED-2900 Health and Movement Education 2 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 Total 34 Fourth year: EDEC-4000 Reading in the Content Area: EC 2 EDEC-4100 Teaching Mathematics: EC 3 EDEC-4200 Teaching Science: EC 3 EDEC-4300 Teaching Social Studies: EC 3 EDEC-4450 Early Childhood Field Experience II 3 EDEC-4450 Early |
| GSCI-2010 Physical Science for Teachers 4 Global Studies Elective 3 LIT-2XXX Literature Elective 3 Total 35 Third year: 35 BTGE-3765 Theology II 3 EDEC-3500 Early Childhood Education 3 EDEC-3600 Issues in Early Childhood Administration 3 EDEC-3800 Teaching Reading and Language Arts: EC 4 EDEC-3900 Kindergarten Field Experience 1 EDEC-3950 Early Childhood Field Experience I 3 EDP-3100 Diagnostics and Intervention in Reading 3 EDUC-2400 Children's Literature 3 EDUC-2500 Educational Psychology 3 ESED-2900 Health and Movement Education 2 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 Total 34 Fourth year: EDEC-4000 Reading in the Content Area: EC 2 EDEC-4100 Teaching Mathematics: EC 3 EDEC-4200 Teaching Science: EC 3 EDEC-4300 Teaching Social Studies: EC 3 EDEC-4450 Early Childhood Field Experience II 3 |
| GSCI-2010 Physical Science for Teachers |
| GSCI-2010 Physical Science for Teachers 4 Global Studies Elective 3 LIT-2XXX Literature Elective 3 Total 35 Third year: 35 BTGE-3765 Theology II 3 EDEC-3500 Early Childhood Education 3 EDEC-3600 Issues in Early Childhood Administration 3 EDEC-3800 Teaching Reading and Language Arts: EC 4 EDEC-3900 Kindergarten Field Experience 1 EDEC-3950 Early Childhood Field Experience I 3 EDP-3100 Diagnostics and Intervention in Reading 3 EDUC-2400 Children's Literature 3 EDUC-2500 Educational Psychology 3 ESED-2900 Health and Movement Education 2 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 Total 34 Fourth year: EDEC-4000 Reading in the Content Area: EC 2 EDEC-4100 Teaching Mathematics: EC 3 EDEC-4200 Teaching Science: EC 3 EDEC-4300 Teaching Social Studies: EC 3 EDEC-4450 Early Childhood Field Experience II 3 |

availability of this endorsement.

Middle Childhood Education

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

Course requirements involve 47 education semester hours plus 36–41 concentration area hours including:

| 36–41 concentration area nours including: | |
|--|----|
| Teacher Education Core (see page 85) | 14 |
| Middle School Methods I | 13 |
| EDMC-3500 Principles of Teaching Middle School | 4 |
| EDMC-3600 Phonics/Structure Language | 3 |
| EDMC-3700 Teaching Reading / Middle Childhood Literature . 4 | 4 |
| EDMC-3950 Middle School Field Experience I: Teaching | |
| Reading | 2 |
| Middle School Methods II | 6 |
| EDMC-4000 Reading and Writing in the Disciplines: Middle | |
| Childhood | 3 |
| EDMC-4440 Middle School Field Experience II | |
| EDUC-3200 Faith and Learning Alignment | 1 |
| Student Teaching | 14 |
| *EDMC-4900 Student Teaching and Seminar 13 | 2 |
| EDSP-4250 Communication, Collaboration, and Inclusion | 2 |
| *Capstone Course | |
| | |

Concentration Areas (must choose two) Concentration courses must be completed prior to student teaching.

| must be completed prior to student teaching. | |
|---|----|
| Mathematics | |
| EDMC-4100 Teaching Mathematics: Middle Childhood | |
| EDMC-4125 Topics in Middle School Mathematics | |
| GMTH-1020 College Algebra | |
| GMTH-1030 Precalculus | |
| GMTH-3010 Proof and Mathematical Modeling | 3 |
| PYCH-2610 Statistics | 3 |
| Language Arts | 17 |
| EDMC-3800 Writing Process and Language | |
| Arts Methods for Middle School | 3 |
| ENG-2070 Fundamentals of English Grammar | 3 |
| ENG-2230 Advanced Composition | |
| ENG-3180 Visual Rhetoric | 2 |
| LIT-2390 Survey of American Literature to 1900 | 3 |
| LIT-3100 Contemporary Young Adult Literature | 3 |
| Science | |
| CHEM-1000 Principles of Chemistry | 5 |
| EDMC-4200 Teaching Science: Middle Childhood | 3 |
| GSCI-1020 Principles of Physical Science | |
| GSCI-3010 Concepts in Middle School Science | |
| GSCI-3060 Environmental Science for Middle | |
| School Educators | 4 |
| Social Studies | 18 |
| ECON-2110 Essentials of Economics | 3 |
| EDMC-4300 Teaching Social Studies: Middle Childhood | 3 |
| *GEO-3510 World Regional Geography — Western | |
| HIST-1120 United States History II | |
| , | _ |

Middle Childhood Education Major Curriculum Summary

| middle Officialion Education Major Carriculani Can | iiiai y |
|--|---------|
| Proficiency Requirements | 0–5 |
| General Education Requirements | 51-62.5 |
| Middle Childhood Education Major Requirements | 47 |
| Concentration Requirements | 35–38.5 |
| Total (minimum, not including proficiency) | |
| | |

*Total credits vary depending on concentrations chosen.

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

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

| First year: BTGE-1720 Spiritual Formation 3 BTGE-2730 Old Testament Literature 3 COM-1100 Fundamentals of Speech 3 EDUC-1000 The Education Profession 2 EDUC-1050 Preliminary Student Involvement 0 EDUC-1800 Principles of Mathematics I 0-3 ENG-1400 Composition 3 GBIO-1000 Principles of Biology 3.5 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 PEF-1990 Physical Activity and the Christian Life 2 Concentration Electives 8 Total 36.5 |
|---|
| Second year: BTGE-2740 New Testament Literature 3 BTGE-3755 Theology I 3 EDSP-2100 Exceptionalities and Behavior 2 EDUC-2050 Teaching Diverse Learners 2 EDUC-2100 e-Learning for Educators 3 EDUC-2300 Assessment and Differentiation 2 EDUC-2500 Educational Psychology 3 EDUC-2800 Principles of Mathematics II 3 EDUC-3100 Philosophical Foundations of Education 3 ESCI/GSCI-XXXX Physical Science Elective 3.5-4 Concentration Electives 8 LIT-2XXX Literature Elective 3 Total 36.5-37 |
| Third year: BTGE-3765 Theology II |
| EDMC-4440 Middle School Field Experience II |



requirement.

Special Education — Intervention Specialist The special education — intervention specialist major

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

| EDEC-4100 Teaching Mathematics: EC | Teacher Education Core (see page 85) |
|------------------------------------|---|
| | EDEC-4000 Reading in the Content Area: EC |
| | Special Education Major Curriculum Summary Proficiency Requirements |



*Dual Licensure optional courses listed on page 86)

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

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

| e |
|--|
| First year: |
| BTGE-1720 Spiritual Formation3 |
| BTGE-2730 Old Testament Literature3 |
| COM-1100 Fundamentals of Speech3 |
| EDSP-2400 Language Development and |
| Communication Disorders2 |
| EDUC-1000 The Education Profession2 |
| EDUC-1800 Principles of Mathematics I0-3 |
| EDUC-2100 e-Learning for Educators3 |
| EDUC-2400 Children's Literature3 |
| EDUC-2800 Principles of Mathematics II |
| ENG-1400 Composition3 |
| GBIO-1000 Principles of Biology |
| GSCI-1020 Principles of Physical Science |
| PYCH-2735 Child-Adolescent Development3 |
| Total 35-38 |
| |
| Second year: |
| BTGE-2740 New Testament Literature |
| BTGE-3755 Theology I3 |
| EDEC-2300 Phonics and the Reading Process4 |
| EDSP-2100 Exceptionalities and Behavior2 |
| EDSP-2500 Survey of Intellectual and Developmental Disabilities1 |
| EDUC-1050 Preliminary Student Involvement0 |
| EDUC-2500 Educational Psychology3 |
| EDUC-2050 Teaching Diverse Learners2 |
| EDUC-2300 Assessment and Differentiation2 |
| EDUC-3100 Philosophical Foundations of Education3 |
| GSS-1100 Politics and American Culture3 |
| Global Studies Elective3 |
| History Elective3 |
| Total 32 |
| |
| The land on the same |
| Third year: |
| BTGE-3765 Theology II |

School of Education Special Education — Intervention Specialist

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 | 14.5 |
|--|-------|
| EDEC-2100 Art and Music for Early Childhood | 2 |
| EDEC-3500 Early Childhood Education | 3 |
| EDEC-3600 Issues in Early Childhood Administration | 3 |
| EDEC-3900 Kindergarten Field Experience | |
| ESED-2900 Health and Movement Education | 2 |
| GSCI-1010 Principles of Earth Science | 3.5 |
| | |
| Special Education Major Curriculum Summary | |
| Proficiency Requirements | 0–5 |
| General Education Requirements | |
| Special Education Major Requirements | 79 |
| Early Child Requirements for Dual Licensure | 14.5 |
| Total (minimum, not including proficiency) | 147.5 |
| | |

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 year: |
|---|
| Fall semester |
| BTGE-1720 Spiritual Formation3 |
| COM-1100 Fundamentals of Speech3 |
| EDUC-1000 The Education Profession2 |
| EDUC-1800 Principles of Mathematics I0–3 |
| EDUC-2100 e-Learning for Educators |
| GBIO-1000 Principles of Biology |
| Total |
| Spring semester |
| BTGE-2730 Old Testament Literature3 |
| EDUC-2800 Principles of Mathematics II |
| ESED-2900 Health and Movement Education for Young Child2 |
| ENG-1400 Composition3 |
| GSCI-1010 Principles of Earth Science |
| PYCH-2735 Child-Adolescent Development |
| Total |
| Summer |
| EDUC-2400 Children's Literature |
| LIT-2XXX Literature Elective |
| Total6 |
| Second year: |
| Fall semester |
| BTGE-2740 New Testament Literature |
| EDEC-2300 Phonics and the Reading Process4 |
| EDSP-2100 Exceptionalities and Behavior2 |
| EDSP-2500 Survey of Intellectual and Developmental Disabilities 1 |
| EDUC-1050 Preliminary Student Involvement0 |
| EDUC-2050 Teaching Diverse Learners2 |
| EDUC-2300 Assessment and Differentiation2 |
| GSCI-1020 Principles of Physical Science |
| Total |
| |

| Spring semester 3 BTGE-3755 Theology I 3 EDEC-2100 Art and Music for Early Childhood 2 EDSP-2400 Language Development and 2 Communication Disorders 2 EDUC-2500 Educational Psychology 3 EDUC-3100 Philosophical Foundations of Education 3 GSS-1100 Politics and American Culture 3 PEF-1990 Physical Activity and the Christian Life 2 Total 18 |
|---|
| Summer HUM-1400 Introduction to the Humanities |
| Third year: Fall semester Methods I (17 credit hours as follows): EDEC-3500 Early Childhood Education |
| Total |
| Methods II (15 credit hours as follows): EDEC-4000 Reading in the Content Area: EC |
| Summer (Online) EDSP-3500 Special Education Law |
| Fourth year: Fall semester BTGE-3765 Theology II |
| EDUC-4950 Student Teaching and Seminar: SpE |

School of Education Adolescent/Young Adult and Multi-Age Licensure Programs

Adolescent/Young Adult and Multi-Age Licensure Programs

The adolescent/young adult licensure programs prepare teachers to work with students in grades 7–12. The Ohio Department of Education has approved Cedarville University to issue adolescent/young adult licenses for teachers in the areas of integrated science (comprehensive), integrated life science, integrated physical science, integrated physics, integrated chemistry, integrated mathematics, integrated language arts, and integrated social studies. In addition to approving the previously listed programs, the Association of Christian Schools International has also approved Cedarville to offer ACSI certification in integrated Bible.

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

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

| Teacher Education Core | 14 |
|---|----|
| EDSP-2100 Exceptionalities and Behavior | 2 |
| EDUC-1000 The Education Profession | 2 |
| EDUC-1050 Preliminary Student Involvement | 0 |
| EDUC-2050 Teaching Diverse Learners | 2 |
| EDUC-2100 e-Learning for Educators | 3 |
| EDUC-2300 Assessment and Differentiation | 2 |
| EDUC-2500 Educational Psychology | 3 |

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

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

| EDSE-3000 Principles of Teaching AYA Learners | 4 |
|---|------|
| ¹ EDSE-4000 Reading in the Content Area: AYA | 3 |
| or EDUC-4000 Reading in the Content Area3 | |
| EDSE-4450 Adolescent/Young Adult Field Experience | 2 |
| EDSP-4250 Communication, Collaboration, and Inclusion | 2 |
| EDUC-3200 Faith and Learning Alignment | 1 |
| Additional Requirements: | |
| EDUC-3100 Philosophical Foundations of Education | 3 |
| EDSE-4900 Student Teaching and Seminar: AYA | .12 |
| (or EDUC-4900 Student Teaching and Seminar: MA | |
| ¹ Adolescent and young adult integrated language arts majors do not take this coul | rse. |









School of Engineering and Computer Science

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School of Engineering and Computer Science Mission Statement

Mission Statement

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

Programs of Study

The School of Engineering and Computer Science offers the following programs of study:

Majors

- 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 ABET, Inc. 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. Cedarville seniors have passed the FE exam at a rate that is consistently higher than the national pass rates.

Personal Requirements

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

School Requirements

New Students

Students who excel in science and mathematics, enjoy solving real-life problems, and wish to serve others have the highest potential for careers in engineering and computer science. Entering students are required to have an ACT composite score of at least 22 (or an SAT of at least 1030) in order to declare a major in the department. We have also determined that incoming engineering students should present an ACT Math subscore greater than 24 or an SAT Math sub-score greater than 590 to be successful in engineering. To assist the incoming students who desire an engineering major but do not meet our identified

math scores to succeed, such students will be identified as "Engineering" students for the first year rather than by one of the specific engineering degree programs. Students identified as "Engineering" students will receive closer academic monitoring during their first year and will be permitted to declare a specific engineering program major after successfully completing both Calculus I (MATH-1710) and Digital Logic Design (EGCP-1010) at Cedarville with a minimum grade of 'C'. We strongly encourage all students interested in engineering to read "Engineering: Is it a four- or five-year degree program?," which outlines the importance of being ready to enter Calculus I at the start of our engineering programs as well as some options to help prepare for calculus.

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

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

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

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 engineering program has its own retention requirements as follows.

Computer Engineering (CpE)

To advance into the junior year, CpE majors must earn a combined GPA of at least 2.0 in the following engineering and computer science courses: CS-1210, 1220, 2210, EGCP-1010, EGGN-1110, EGEE-2010, and EGME-1810 and 2570.

In addition, CpE majors must earn a combined GPA of at least 2.0 in the following cognate courses: MATH-1710, 1720, 2510, 2740 and MATH-3110, and PHYS-2110 and 2120.

Electrical Engineering (EE)

To advance into the junior year, EE majors must earn a combined GPA of at least 2.0 in the following engineering courses: EGCP-1010, EGGN-1110, EGEE-2010, 2110, and EGME-1810, 2570.

In addition, EE majors must earn a combined GPA of at least 2.0 in the following cognate courses: CS-1210, CS-1220, MATH-1710, 1720, 2710, 2740, and PHYS-2110 and 2120.

Mechanical Engineering (ME)

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

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

Graduation Requirements

- Earn a cumulative GPA of at least 2.0 in all major and cognate courses.
- All engineering majors must take an assessment exam similar to the NCEES FE exam.
- CS majors must achieve a grade of at least a "C-" in the following courses: CS-1210, 1220, 2210, 3410, 4810, MATH-1710, and MATH 2510 (or MATH-2210 and MATH-3560).

School of Engineering and Computer Science Technical Resources

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, and surface-mount soldering. We also have extensive PC-based laboratories in which students use computer-based circuit design, 3-D solid modeling, FEA, CFD, CNC, and industry-standard IDE software.

Cocurricular Opportunities

Engineering freshmen participate in an annual Cardboard Canoe Challenge. Other course-based competitions include statics and dynamics design competitions for sophomores, 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, 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 ultrasound machines that help doctors diagnose medical problems, electrical engineering plants to power our cities, and more fuel-efficient cars and airplanes. Computer programmers develop the software solutions that are used to pilot spacecraft, combat terrorism, prevent collisions at airports, and keep our cars running.

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

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

Engineering Educational Objectives

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

- They are successful in professions related to their fields of study.
- 2. They are successful in graduate-level education.
- 3. They continue to develop professionally and remain current in their fields.
- They make sound professional and ethical decisions based upon biblical truths.
- They continue to grow in service and support of Christian ministries, both in their communities and around the world.



Educational Philosophy for Engineering and Computer Science Programs

All of our programs are designed to give our graduates a solid background in their technical fields of choice. Our programs include a strong theoretical foundation as well as significant hands-on application. Each program also includes a senior capstone design experience. The three engineering programs share a common philosophy of program outcomes which are consistent with the ABET engineering criteria. Similarly, our computer science program philosophy is consistent with the ABET computer science criteria.

Faculty

Robert Chasnov, Dean; Senior Professor of Engineering. Education: B.S., Rensselaer Polytechnic Institute, 1978; M.S., University of Illinois, 1980; Ph.D., University of Illinois, 1983; registered professional engineer. At Cedarville since 1991. Samuel SanGregory, Assistant Dean; 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. Gerald Brown, Associate 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, Senior Professor of Mechanical Engineering. *Education:* B.S.M.E., Cornell University, 1980; M.Eng.M., Cornell University, 1981; Ph.D., Cornell University, 1985; registered professional engineer. At Cedarville since 1996.

Patrick Dudenhofer, Assistant Professor of Computer Science. *Education:* B.S., Cedarville University, 2004; M.S. Wright State University, 2011. At Cedarville since 2014.

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

Seth Hamman, Assistant Professor of Computer Science. *Education:* B.A., Duke University, 2002; M.S. Yale University, 2011. At Cedarville since 2012.

Frederick Harmon, Associate Professor of Electrical Engineering. *Education:* B.S.E.E., Embry-Riddle Aeronautical University, 1992; M.S.E.E., Air Force Institute of Technology, 1996; Ph.D., University of California-Davis, 2005. At Cedarville since 2014.

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.

Darren Holland, Assistant Professor of Mechanical Engineering. *Education:* B.S.M.E., Cedarville University, 2006; M.S.M.E., University of Michigan, 2009; Ph.D., University of Michigan, 2012. At Cedarville since 2013.

Jay Kinsinger, Associate Professor of Mechanical and Biomedical Engineering. *Education:* B.S., Mechanical Engineering Technology and B.S., Manufacturing Technology, University of Dayton, 1992; M.S., Biomedical Engineering, Wright State University, 2000. At Cedarville since 1999.

Clinton Kohl, 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 and Biomedical Engineering. *Education:* B.S.A.A.E., Purdue University, 1982; M.S.A.A.E. Purdue University, 1986; Ph.D., Purdue University, 1989; registered professional engineer. At Cedarville since 2003. **Zhaohui (George) Qin**, Assistant Professor of Mechanical Engineering. *Education:* B.S., Shanghai Jiaotong University, 1996; M.S., Shanghai Jiaotong University, China, 1999; Ph.D., Iowa

Keith Shomper, Professor of Computer Science. *Education:* B.A., University of Northern Colorado, 1983; M.S., Air Force Institute of Technology, 1984; Ph.D., The Ohio State University, 1993. At Cedarville since 2003.

State University, 2007. At Cedarville since 2012.

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

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

Timothy Tuinstra, Associate Professor of Electrical Engineering. *Education:* B.S.E.E., Cedarville University, 1996; M.S.E.E., University of Dayton, 1998; Ph.D., University of Dayton, 2008. At Cedarville since 2002.

Lawrence Zavodney, Senior Professor of Mechanical Engineering. *Education:* B.S.M.E., The University of Akron, 1974; M.S.M.E., The University of Akron, 1977; Ph.D., Virginia Polytechnic Institute and State University, 1987; registered professional engineer. At Cedarville since 1992.

Technical Support Staff

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

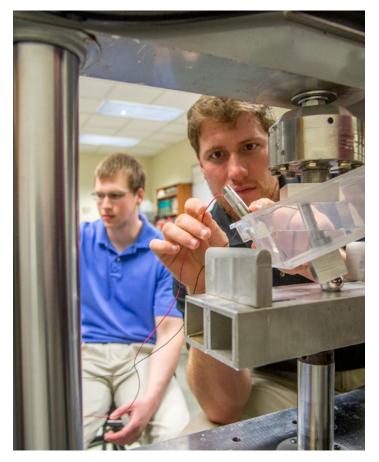
James Landers, Computer and Electrical Engineering Technician, *Education:* Gateway Electronics, Microsoft, FCC. At Cedarville since 2005.

Wayne Leffingwell, Project Lab Steward. At Cedarville since 2009.

Engineering and Computer Science Advisory Council

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

Ronald Baker, Hi-Tech Aero Spares Carl Bertsche, Jr., Production Engineering Company Rob Bouwens, Rolls Royce Corporation Joe Buonodono, Johnson Controls, Inc. Gary Clasby, Duriron Company, Inc. Tom Curran, WPAFB, Aero Propulsion and Power, retired William Engstrom, Engstrom Foundation Stephen Harris, Rixan Associates, Inc. John Harshbarger, Video Instruments Richard Holmes, Holmes and Mays Skip Holmes, Procter and Gamble Dan Kerr, GM Specialty Cars Division Ed Krupka, Burris Logistics 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.



School of Engineering and Computer Science Computer Engineering

Computer Engineering

Course requirements for the **Bachelor of Science in Computer Engineering (B.S.Cp.E.) degree** are comprised of the following and may be modified by the department Chair.

| Course requirements involve 70 semester hours including: | |
|--|---|
| CS-1210 C++ Programming | 2 |
| CS-1220 Object Oriented Design with C++ | |
| CS-2210 Data Structures Using Java | |
| CS-3310 Operating Systems | 3 |
| CS-3410 Algorithms | 3 |
| EGCP-1010 Digital Logic Design | 3 |
| EGCP-2120 Microcontrollers | 3 |
| EGCP-3010 Advanced Digital Logic Design | 3 |
| EGCP-3210 Computer Architecture | 3 |
| EGCP-4210 Advanced Computer Architecture | 3 |
| *EGCP-4810 Computer Engineering Senior Design I | 4 |
| *EGCP-4820 Computer Engineering Senior Design II | 4 |
| EGEE-2010 Circuits | 5 |
| EGEE-3110 Linear Systems | 3 |
| EGEE-3210 Electronics I | 3 |
| EGGN-1110 The Engineering Profession | |
| ¹ EGGN-3110 Professional Ethics | 3 |
| EGGN-4010 Senior Seminar | C |
| EGME-1810 Engineering Graphics | 1 |
| EGME-2570 Statics and Dynamics | 3 |
| EGME-3170 Thermal Systems | 2 |
| MATH-2510 Discrete Math: Computer Science | 3 |
| **Three Technical Electives (must include a 4000-level course) | 9 |
| | |

| Required Cognates | 27.5 |
|--|------|
| ² CHEM-1050 Chemistry for Engineers | 3.5 |
| ³ MATH-1710 Calculus I | |
| 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 | |
| 1Catisfica humanities general advection requirements | |

¹Satisfies humanities general education requirements

^{**}Technical electives must be selected from EGCP or CS courses of 3000-level or higher that are not already prescribed in the program. At least one technical elective must be a 4000-level course.



| Computer Engineering Major Curriculum Summary | |
|---|-------|
| Proficiency Requirements | .0–5 |
| General Education Requirements | 41.5 |
| Comprehensive Computer Engineering Requirements | 70 |
| Required Cognates | .27.5 |
| Total (minimum, not including proficiency) | . 139 |
| A complete description of the general education requirements is found on page 24. | |

Suggested Four-Year Curriculum for a Major in Computer Engineering

| wajor in Computer Engineering |
|---|
| First year: |
| BTGE-1720 Spiritual Formation |
| CHEM-1050 Chemistry for Engineers |
| COM-1100 Fundamentals of Speech |
| CS-1210 C++ Programming2 |
| CS-1220 Object Oriented Design with C++3 |
| EGCP-1010 Digital Logic Design3 |
| EGGN-1110 The Engineering Profession1 |
| EGME-1810 Engineering Graphics1 |
| MATH-1710 Calculus I5 |
| MATH-1720 Calculus II5 |
| PHYS-2110 General Physics I4 |
| Total |
| |
| Second year: |
| BTGE-2730 Old Testament Literature3 |
| CS-2210 Data Structures Using Java3 |
| EGEE-2010 Circuits5 |
| EGME-2570 Statics and Dynamics |
| ENG-1400 Composition |
| MATH-2510 Discrete Math: Computer Science |
| MATH-2740 Differential Equations |
| MATH-3110 Probability and Statistics I |
| PEF-1990 Physical Activity and the Christian Life |
| PHYS-2120 General Physics II |
| Total |
| 10tai 32 |
| Third year: |
| BTGE-2740 New Testament Literature |
| CS-3310 Operating Systems |
| CS-3410 Algorithms |
| EGCP-2120 Microcontrollers |
| EGCP-3010 Advanced Digital Logic Design |
| EGCP-3210 Computer Architecture |
| |
| EGEE-3110 Linear Systems |
| EGEE-3210 Electronics I |
| EGGN-3110 Professional Ethics |
| HUM-1400 Introduction to Humanities3 |
| LIT-2XXX Literature Elective3 |
| Technical Electives |
| Total36 |
| Faculty const |
| Fourth year: BTGE-3755 Theology I3 |
| |
| BTGE-3765 Theology II |
| EGCP-4210 Advanced Computer Architecture |
| EGCP-4810 Computer Engineering Senior Design I4 |
| EGCP-4820 Computer Engineering Senior Design II4 |
| EGGN-4010 Senior Seminar0 |
| EGME-3170 Thermal Systems2 |
| GSS-1100 Politics and American Culture3 |
| Biology Elective |
| Technical Electives6 |
| History Elective |
| Social Science/Global Awareness Elective |
| Total |
| |
| |

²Satisfies physical science general education requirements

³Satisfies mathematics general education requirements

^{*}Capstone Course

Computer Science — Bachelor of Science

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

| Course requirements involve 57 semester hours including: |
|--|
| Computer Science Core Requirements51 |
| CS-1210 C++ Programming2 |
| CS-1220 Object-Oriented Design Using C++3 |
| CS-2210 Data Structures Using Java |
| CS-3220 Web Applications |
| CS-3310 Operating Systems |
| CS-3350 Foundations of Computer Security |
| CS-3410 Algorithms |
| CS-3510 Compiler Theory and Practice |
| CS-3610 Database Organization and Design |
| *CS-4810,4820 Software Engineering I and II |
| EGCP-1010 Digital Logic Design |
| EGCP-3210 Computer Architecture |
| EGCP-4310 Computer Networks |
| EGCN 0440 Prefereignal Fibina |
| EGGN-3110 Professional Ethics |
| EGGN-4010 Senior Seminar |
| MATH-2510 Discrete Mathematics for Computer Science 3 |
| Or MATH-2210 Logic and Method of Proof |
| and MATH-3560 Discrete Math: Combinatorics3 |
| MATH-3110 Probability and Statistics I |
| Technical electives chosen from the following |
| Any 3000- or 4000-level computer science course |
| EGCP-3010 Advanced Digital Logic Design |
| EGCP-4210 Advanced Computer Architecture |
| MATH-3500 Number Theory |
| MATH-3610 Linear Algebra3 |
| MATH-3760 Numerical Analysis3 |
| Other courses with pre-approval of department Chair |
| *Capstone Course |
| |
| Required Cognates21.5 |
| CHEM-1050 Chemistry for Engineers |
| (or CHEM-1110 General Chemistry I4) |
| MATH-1710,1720 Calculus I and II |
| PHYS-2110, 2120 General Physics I and II8 |
| |
| Optional Computer Science Tracks**9-12 |
| Replace 6 hours of technical electives with 9–12 hours from one of the following |
| computer science track |
| Computer Graphic Track |
| CS-4710 Computer Graphics3 |
| Choose one of the following groups: |
| Group1 |
| BRDM-2110 Video Technical Training3 |
| BRDM-3310 Advanced Video Production3 |
| Group 2 |
| BRDM-2350 Introduction to Graphics for TV and Film3 |
| BRDM-3630 Principles of Computer Animation3 |
| BRDM-3765 Animation Practicum1 |
| Cyber Security Track |

EGCP-2120 Microcontrollers......3

Operations Research Track

| MATH-3240 Introduction to Operations Research 3 |
|---|
| MATH-3610 Linear Algebra3 |
| MATH-4110 Probability and Statistics II |

**The optional computer science tracks allow specialization within the degree by focusing the technical elective hours into a designated area.

Computer Science Major (B.S.) Curriculum Summary Proficiency Requirements.....

| i tollolottoy i toquirottio | |
|--|-------|
| General Education Requirements | 41.5 |
| Computer Science Major Requirements | 57–63 |
| Required Cognates | 21.5 |
| Electives | 2–8 |
| Total (minimum, not including proficiency) | 128 |

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

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

| Major in Computer Science — B.S. |
|--|
| First year: BTGE-1720 Spiritual Formation 3 BTGE-2730 Old Testament Literature 3 CS-1210 C++ Programming 2 CS-1220 Object Oriented Design Using C++ 3 EGCP-1010 Digital Logic Design 3 ENG-1400 Composition 3 MATH-1710, 1720 Calculus I and II 10 PEF-1990 Physical Activity and the Christian Life 2 PHYS 2110 General Physics I 4 Total 33 Second year: BTGE-2740 New Testament Literature 3 BTGE-3755 Theology I 3 CS-2210 Data Structures Using Java 3 CS-3350 Foundations of Computer Security 3 COM-1100 Fundamentals of Speech 3 EGCP-3210 Computer Architecture 3 MATH-2510 Discrete Mathematics for Computer Science 3 MATH-3110 Probability and Statistics I 3 PHYS 2120 General Physics II 4 |
| Electives3 |
| Total |
| Third year: 3 BTGE-3765 Theology II 3 CS-3220 Web Applications 3 CS-3310 Operating Systems 3 CS-3410 Algorithms 3 CS-3510 Compiler Theory and Practice 3 CS-3610 Database Organization and Design 3 CS Technical Electives 3 EGCP-4310 Computer Networks 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 History Elective 3 Total 33 |
| Fourth year: 3.5 CHEM-1050 Chemistry for Engineers 3.5 CS-4810, 4820 Software Engineering I and II 7 CS Technical Electives 3 EGGN-3110 Professional Ethics 3 EGGN-4010 Senior Seminar 0 GBIO-1000 Principles of Biology 3.5 LIT-2XXX Literature Elective 3 Social Science/Global Awareness Elective 3 Electives*** 5 Total 31 |
| |

***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.

Graphic Design Track

Hardware Track

School of Engineering and Computer Science Electrical Engineering

Electrical Engineering

Course requirements for the **Bachelor of Science in Electrical Engineering (B.S.E.E.) degree** are comprised of the following and may be modified by the department Chair.

| Course requirements involve 70 semester nours including: | |
|--|---|
| CS-1210 C++ Programming | 2 |
| CS-1220 Object Oriented Design Using C++ | (|
| EGCP-1010 Digital Logic Design | (|
| EGCP-2120 Microcontrollers | (|
| EGEE-2010 Circuits | |
| EGEE-2110 Engineering Analysis | (|
| EGEE-3110 Linear Systems | (|
| EGEE-3210 Electronics I | |
| EGEE-3220 Electronics II | Į |
| EGEE-3310 Electromagnetics | (|
| EGEE-3330 Communications Theory | 4 |
| EGEE-4110 Digital Signal Processing | |
| EGEE-4410 Feedback Control Systems | 4 |
| *EGEE-4810 Electrical Engineering Senior Design I | |
| *EGEE-4820 Electrical Engineering Senior Design II | 4 |
| EGGN-1110 The Engineering Profession | |
| ¹ EGGN-3110 Professional Ethics | (|
| EGGN-4010 Senior Seminar | (|
| EGME-1810 Engineering Graphics | |
| EGME-2570 Statics and Dynamics | (|
| EGME-3170 Thermal Systems | 2 |
| ² Three Technical Electives (must include one | |
| 4000-level course) | Ć |
| | |

| 27.5 |
|------|
| 3.5 |
| 5 |
| 5 |
| 3 |
| 3 |
| 4 |
| 4 |
| |

¹Satisfies humanities general education requirements.

Electrical Engineering Major Curriculum Summary

| Total (minimum, not including proficiency) | 139 |
|---|------|
| Required Cognates | |
| Comprehensive Electrical Engineering Requirements | 70 |
| General Education Requirements | 41.5 |
| 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 Electrical Engineering

| First year: |
|---|
| BTGE-1720 Spiritual Formation3 |
| BTGE-2730 Old Testament Literature3 |
| CHEM-1050 Chemistry for Engineers3.5 |
| CS-1210 C++ Programming2 |
| EGCP-1010 Digital Logic Design3 |
| EGGN-1110 The Engineering Profession1 |
| EGME-1810 Engineering Graphics1 |
| ENG-1400 Composition3 |
| MATH-1710 Calculus I5 |
| MATH-1720 Calculus II |
| PHYS-2110 General Physics I |
| Total |
| Second year: |
| BTGE-2740 New Testament Literature |
| COM-1100 Fundamentals of Speech3 |
| CS-1220 Object Oriented Design Using C++3 |
| EGEE-2010 Circuits5 |
| EGEE-2110 Engineering Analysis3 |
| EGME-2570 Statics and Dynamics3 |
| GSS-1100 Politics and American Culture3 |
| MATH-2710 Calculus III |
| MATH-2740 Differential Equations3 |
| PEF-1990 Physical Activity and the Christian Life2 |
| PHYS-2120 General Physics II4 |
| Total35 |
| Third year: |
| EGCP-2120 Microcontrollers |
| EGEE-3110 Linear Systems |
| EGEE-3210 Electronics I |
| EGEE-3220 Electronics II |
| EGEE-3310 Electromagnetics |
| EGEE-3330 Communications Theory4 |
| EGGN-3110 Professional Ethics |
| |
| HUM-1400 Introduction to Humanities3 |
| Technical Elective |
| Technical Elective 3 LIT-2XXX Literature Elective 3 |
| Technical Elective |
| Technical Elective 3 LIT-2XXX Literature Elective 3 |
| Technical Elective |
| Technical Elective 3 LIT-2XXX Literature Elective 3 Social Science/Global Awareness Elective 3 Total 36 Fourth year: |
| Technical Elective 3 LIT-2XXX Literature Elective 3 Social Science/Global Awareness Elective 3 Total 36 Fourth year: BTGE-3755 Theology I 3 |
| Technical Elective 3 LIT-2XXX Literature Elective 3 Social Science/Global Awareness Elective 3 Total 36 Fourth year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 |
| Technical Elective 3 LIT-2XXX Literature Elective 3 Social Science/Global Awareness Elective 3 Total 36 Fourth year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 EGEE-4110 Digital Signal Processing 2 |
| Technical Elective 3 LIT-2XXX Literature Elective 3 Social Science/Global Awareness Elective 3 Total 36 Fourth year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 EGEE-4110 Digital Signal Processing 2 EGEE-4410 Feedback Control Systems 4 |
| Technical Elective 3 LIT-2XXX Literature Elective 3 Social Science/Global Awareness Elective 3 Total 36 Fourth year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 EGEE-4110 Digital Signal Processing 2 EGEE-4410 Feedback Control Systems 4 EGEE-4810 Electrical Engineering Senior Design I 4 |
| Technical Elective 3 LIT-2XXX Literature Elective 3 Social Science/Global Awareness Elective 3 Total 36 Fourth year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 EGEE-4110 Digital Signal Processing 2 EGEE-4410 Feedback Control Systems 4 EGEE-4810 Electrical Engineering Senior Design I 4 EGEE-4820 Electrical Engineering Senior Design II 4 |
| Technical Elective 3 LIT-2XXX Literature Elective 3 Social Science/Global Awareness Elective 3 Total 36 Fourth year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 EGEE-4110 Digital Signal Processing 2 EGEE-4410 Feedback Control Systems 4 EGEE-4810 Electrical Engineering Senior Design I 4 EGEE-4820 Electrical Engineering Senior Design II 4 EGGN-4010 Senior Seminar 0 |
| Technical Elective 3 LIT-2XXX Literature Elective 3 Social Science/Global Awareness Elective 3 Total 36 Fourth year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 EGEE-4110 Digital Signal Processing 2 EGEE-4410 Feedback Control Systems 4 EGEE-4810 Electrical Engineering Senior Design I 4 EGEE-4820 Electrical Engineering Senior Design II 4 EGGN-4010 Senior Seminar 0 EGME-3170 Thermal Systems 2 |
| Technical Elective 3 LIT-2XXX Literature Elective 3 Social Science/Global Awareness Elective 3 Total 36 Fourth year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 EGEE-4110 Digital Signal Processing 2 EGEE-4410 Feedback Control Systems 4 EGEE-4810 Electrical Engineering Senior Design I 4 EGEE-4820 Electrical Engineering Senior Design II 4 EGGN-4010 Senior Seminar 0 EGME-3170 Thermal Systems 2 Biology Elective 3.5 |
| Technical Elective 3 LIT-2XXX Literature Elective 3 Social Science/Global Awareness Elective 3 Total 36 Fourth year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 EGEE-4110 Digital Signal Processing 2 EGEE-4410 Feedback Control Systems 4 EGEE-4810 Electrical Engineering Senior Design I 4 EGEE-4820 Electrical Engineering Senior Design II 4 EGGN-4010 Senior Seminar 0 EGME-3170 Thermal Systems 2 |

²Technical electives must have EGXX designation at 3000- or higher level.

³Satisfies physical science general education requirements.

⁴Satisfies mathematics general education requirements.

^{*}Capstone Course

School of Engineering and Computer Science Mechanical Engineering

Mechanical Engineering

Course requirements for the **Bachelor of Science in Mechanical Engineering (B.S.M.E.) degree** are comprised of the following and may be modified by the department Chair.

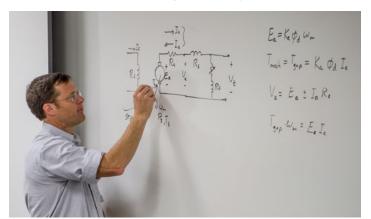
| Course requirements involve 70 semester hours including: | |
|---|---|
| EGCP-1010 Digital Logic Design | 3 |
| EGEE-2050 Circuits and Instrumentation | 4 |
| EGEE-3530 Electrical Machines | 3 |
| EGGN-1110 The Engineering Profession | |
| ¹ EGGN-3110 Professional Ethics | 3 |
| EGGN-4010 Senior Seminar | (|
| EGME-1810 Engineering Graphics | |
| EGME-2050 Computational Methods | |
| EGME-2410 Properties of Engineering Materials | 4 |
| EGME 2430 Contemporary Manufacturing Processes | 3 |
| EGME-2530 Statics and Mechanics of Materials | 5 |
| EGME-2630 Dynamics | 3 |
| EGME-3010 Mechanical Engineering Lab I | 2 |
| EGME-3020 Mechanical Engineering Lab II | 2 |
| EGME-3110 Thermodynamics | |
| EGME-3150 Heat Transfer | 3 |
| EGME-3210 Fluid Mechanics | 3 |
| EGME-3610 Kinematics and Design of Machines | 3 |
| EGME-3850 Mechanical Design | |
| EGME-4660 Automatic Controls | |
| **EGME-4810 Mechanical Engineering Senior Design I | 3 |
| **EGME-4820 Mechanical Engineering Senior Design II | 3 |
| ⁴ Engineering Electives (must include one 4000-level course) | |
| | |

| Required Cognates | 27.5 |
|--|------|
| ² CHEM-1050 Chemistry for Engineers | 3.5 |
| ³ MATH-1710 Calculus I | |
| MATH-1720 Calculus II | 5 |
| MATH-2710 Calculus III | 3 |
| MATH-2740 Differential Equations | 3 |
| PHYS-2110 General Physics I | 4 |
| PHYS-2120 General Physics II | |
| ¹Satisfies humanities general education requirements | |

Satisfies humanities general education requirements.

Mechanical Engineering Major Curriculum Summary

| 5 5 , | • |
|---|------|
| Proficiency Requirements | 0–5 |
| General Education Requirements | 41.5 |
| Comprehensive Mechanical Engineering Requirements | 70 |
| Required Cognates | 27.5 |
| Total (minimum, not including proficiency) | |



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

Suggested Four-Year Curriculum for a Major in Mechanical Engineering

| First year: BTGE-1720 Spiritual Formation 3 BTGE-2730 Old Testament Literature 3 CHEM-1050 Chemistry for Engineers 3.5 EGCP-1010 Digital Logic Design 3 EGGN-1110 The Engineering Profession 1 EGME-1810 Engineering Graphics 1 ENG-1400 Composition 3 MATH-1710 Calculus I 5 MATH-1720 Calculus II 5 PEF-1990 Physical Activity and the Christian Life 2 PHYS-2110 General Physics I 4 Total 33.5 | |
|--|--|
| Second year: BTGE-2740 New Testament Literature 3 COM-1100 Fundamentals of Speech 3 EGEE-2050 Circuits and Instrumentation 4 EGME-2050 Computational Methods 4 EGME-2530 Statics and Mechanics of Materials 5 EGME-2630 Dynamics 3 GSS-1100 Politics and American Culture 3 MATH-2710 Calculus III 3 MATH-2740 Differential Equations 3 PHYS-2120 General Physics II 4 Total 35 | |
| Third year: EGGN-3110 Professional Ethics 3 EGME-2410 Properties of Engineering Materials 4 EGME-3010 Mechanical Engineering Lab I 2 EGME-3020 Mechanical Engineering Lab II 2 EGME-3110 Thermodynamics 5 EGME-3150 Heat Transfer 3 EGME-3210 Fluid Mechanics 3 EGME-3610 Kinematics and Design of Machines 3 EGME-3850 Mechanical Design 3 HUM-1400 Introduction to Humanities 3 History/Global Awareness Elective 3 Total 34 | |
| Fourth year: 33 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 ECON 2110 Essentials of Economics 3 EGE-3530 Electrical Machines 3 EGMS-4010 Senior Seminar 0 EGME-2430 Contemporary Manufacturing Processes 3 EGME-4660 Automatic Controls 3 EGME-4810 Mechanical Engineering Senior Design I 3 EGME-4820 Mechanical Engineering Senior Design II 3 Biology Elective 3 Engineering Electives 6 LIT-2XXX Literature Elective 3 Total 36.5 | |

²Satisfies physical science general education requirements.

³Satisfies mathematics general education requirements.

⁴Engineering electives must have EGXX designation at 3000 or higher level,

^{*}ECON-2110Essentials of Economics required Social Science elective

^{**}Capstone Course

Minors

Biomedical Engineering Minor

The **biomedical engineering minor** will help prepare computer, electrical, and mechanical engineering students for careers in the biomedical engineering field, graduate study in biomedical engineering, or medical school. While not required for the emphasis in biomedical engineering, students intending to pursue medical school should have two semesters of general chemistry and organic chemistry, as well as a semester of zoology, cell biology, and junior level biochemistry. Two of these courses* could be counted as electives in the biomedical engineering minor, and only 6–7 additional semester hours are required for the minor beyond the engineering major.

Course requirements for the biomedical engineering minor involve 15.5–18 semester hours including:

| involve 15.5–16 semester nours including. | |
|---|-------|
| BIO/GBIO-XXXX Biology Elective | 3.5-4 |
| GBIO-2010 Human Anatomy and Physiology I | 4 |
| EGGN-3610 Biomedical Engineering Systems | 3 |
| Choose one elective from the following | 2–4 |
| EGGN-3710 Biomedical Engineering Research | 2 |
| *Health Science elective | 3–4 |
| Engineering elective | 2–3 |
| Choose one elective from the following | |
| EGEE-4610 Medical Imaging | |
| EGME-4560 Biomechanics and Biomaterials | |
| | |

In addition, mechanical engineering students selecting the biomedical engineering minor may replace EGEE-3530 Electrical Machines in their major with an engineering technical elective, approved by the Dean or Assistant Dean.

Computer Science Minor

The **computer science minor** allows students to take a focused set of courses which will enable them to effectively employ programming within their own discipline. Proficiency in computer programming is a skill which can be a strong asset in virtually every discipline.

Course requirements for the computer science minor involve 27 semester hours including:

| CS-1210 C++ Programming | 2 |
|--|---|
| CS-1220 Object-Oriented Design Using C++ | 3 |
| CS-2210 Data Structures Using JAVA | |
| CS-3410 Algorithms | 3 |
| EGCP-1010 Digital Logic Design | |
| MATH-1710, 1720 Calculus I and II | |
| Electives chosen from the following | 3 |
| 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 | 0) |
| EGGN-3920 Co-Op II | |
| (or EGGN-3921 Co-Op IIA | |
| (and EGGN- 3922 Co-Op IIB | 0) |
| EGGN-3930 Co-Op III | 0 |
| (or EGGN-3931 Co-Op IIIA | 0) |
| (and EGGN- 3932 Co-Op IIIB | 0) |

Engineering Honors Program

The **engineering honors program** is designed to challenge exceptional students and encourage them to reach their highest possible potential. Because the program is integrated with the University's honors program, students who wish to participate must first be admitted into the honors program; the details are listed in the Interdisciplinary Studies section (page 125). Admission can occur in either the freshman or sophomore year. Admission to the engineering honors program occurs after the student completes the sophomore year. A cumulative GPA of 3.5 or higher is required for participation.

Engineering course work involves taking the honors version of three courses and one additional engineering elective course. These engineering honors courses are the regularly scheduled courses and are taken with other students, but they have enrichment opportunities and exposure to advanced topics through special assignments and extra sessions with the professor.

Course requirements for the engineering honors program include: HON-1010 and 1020 Making of the Modern Mind

| (substitutes for HUM-1400 and HIST elective) | 10 |
|--|----|
| EGXX-4XXX Additional Engineering Elective | 3 |

Honors version of the following courses:

Requirements for computer engineering majors include:

| EGCP-3010 Advanced Digital Logic Design | |
|---|--|
| EGCP-3210 Computer Architecture3 | |
| EGEE-3210 Electronics I | |

Requirements for electrical engineering majors include:

| EGEE-32 TO Electronics F | |
|----------------------------------|--|
| EGEE-3330 Communications Theory4 | |
| EGEE-4410 Feedback Controls4 | |

Requirements for mechanical engineering majors include:

| EGME-3110 Thermodynamics | 5 |
|------------------------------|---|
| EGME-3850 Mechanical Design | |
| FGMF-4660 Automatic Controls | 3 |

Students who earn a "B" or higher in HON-1010 and 1020, earn a "B" or higher in all engineering honors courses, and graduate with a cumulative GPA of 3.5 or higher will earn the "engineering honors graduate" designation.



Department of English, Literature, and Modern Languages

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Department of English, Literature, and Modern Languages Mission Statement,

Mission Statement

The Cedarville University Department of English, Literature, and Modern Languages seeks to:

- · Instruct students to write effectively.
- Encourage students to read and appreciate literature.
- · Teach students to evaluate literature intelligently.
- Provide a general knowledge of the chronology and the social and intellectual background of English, American, and Spanish literature.
- Prepare students for graduate work in the fields of English, and Spanish.
- · Prepare teachers of English and Spanish.

Personal Requirements

Students who choose English as a major are expected to acquire a high level of competency in the discipline of the English language. Those who wish to study foreign language will benefit from taking foreign language in high school. No previous foreign language experience is required to take elementary-level foreign language.

Department Requirements

To graduate with a major from the Department of English, Literature, and Modern Languages, students must earn at least a 2.0 cumulative average in all courses required for their major and a "C-" or higher in all courses taken to meet specific requirements in their major.

Programs of Study

The Department of English, Literature, and Modern Languages offers the following programs:

Majors

- English
- Language Arts Education Integrated
- Linguistics
- · Spanish Education Multi-Age
- Spanish

Minors

- Asian Studies
- · Creative Writing
- Editing and Publishing
- French
- German
- Latin American Studies
- · Linguistics
- Literature
- Middle Eastern Studies
- Spanish
- Spanish for Professionals
- TESOL (Teaching English to Speakers of Other Languages)
- · Western European Studies

Writing Center

The Cedarville University Writing Center exists to help writers at all levels of proficiency, from all academic disciplines develop effective writing skills. This development takes place primarily through one-on-one peer consultations that are adapted to individual writers' needs. Such consultations will be competent and timely, will occur in a comfortable, nonthreatening atmosphere, and will address all writing projects in any stage of the writing process, from brainstorming to revision. These consultations focus primarily on the writing at hand, but the long-term goal for every session is to help each tutee become a better writer overall. The center is neither a proofreading service nor a classroom — tutors do not edit or grade. Instead, the center blends service and communication, a blend that at its core is wholly Christian.

Objectives

In order to help writers improve their writing, we aim to help them:

- · Identify global concerns before sentence-level concerns
- · Discover their strengths and weaknesses as writers
- · Understand their assignments
- Increase their confidence in writing
- Develop the initiative to pursue future discourse about writing For more information, the Writing Center website is **cedarville**.

edu/writingcenter.

Cocurricular Opportunities

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.

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.

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 Cedarville's special summer programs. Participants remain enrolled at Cedarville, continue to receive financial aid, and take classes for Cedarville credit. Semester and 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 International Programs at cedarville.edu/internationalprograms. Preapproval from International Programs must be received before students can participate in any of the programs.

Two of the most popular programs for English, literature, and modern languages majors are Cedarville University in Spain and the Summer Study Abroad program in Oxford.

Cedarville University in Spain

cedarville.edu/academics/internationalprograms/ spainsemester

In cooperation with the Institute for Spanish Studies (ISS), Cedarville students have the opportunity to study in a customized program during either the fall or spring semesters or one or two summer sessions in Valencia, Spain. In addition to taking courses with ISS, students will take courses with Cedarville professor, Dr. Andrew Wiseman.

Cedarville Summer Abroad Programs

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 Cedarville professors. These courses are ideal for students whose majors do not have the flexibility of a semester abroad. Locations vary each summer, but usually are in one or two of the following locations: China, France, Germany, Greece, Ireland, Israel, Oxford, and Spain.

Department of English, Literature, and Modern Languages Technical Resources

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

Career Opportunities

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

- · Creative writing
- International business
- Journalism
- Law

- Missions
- Publishing
- Teaching

Faculty

Melissa Faulkner, *Chair;* Associate 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. English, Miami University of Ohio, 2007. At Cedarville since 2007

Scott Calhoun, Professor of English. *Education:* B.A., Cedarville University, 1995; M.A., Bowling Green State University, 1997; Ph.D., Bowling Green State University, 1999. At Cedarville since

Daniel Clark, Associate Professor of English. *Education:* B.A., Tennessee Temple University, 1988; M.A., University of Tennessee at Chattanooga, 1993. At Cedarville since 1999.

Donald Deardorff II, Professor of English, Writing Across the Curriculum Coordinator. *Education:* B.A., Gettysburg College, 1989; M.A., University of Maryland, 1990; Ph.D., University of Rhode Island, 1995. At Cedarville since 1996.

Andrew Graff, Assistant Professor of English. *Education*: B.A., Lawrence University, 2009; M.F.A., English (Fiction Emphasis), University of Iowa, 2011. At Cedarville since 2015.

Louise Grandouiller, Assistant Professor of French. *Education:* B.A., Indiana University, 1975; M.A., University of Texas at Arlington, 1980. At Cedarville since 2009.

Kevin Heath, Professor of English. *Education:* B.A., Truman State University, 1986; M.A., Michigan State University, 1988; graduate study, Grand Rapids Baptist Seminary, 1989; Ph.D., University of Cincinnati, 1999. At Cedarville since 1990.

Barbara Loach, Senior Professor of Spanish. *Education:* B.A., Cedarville University, 1977; M.A., Bowling Green University, 1978; M.A., Wright State University, 1995; Ph.D., The Ohio State University, 1990. At Cedarville since 1978.

Isaac Mayeux, Assistant Professor of English, Assistant Writing Center Director. *Education:* B.A., Cedarville University, 2009; M.A., University of Dayton, 2011. At Cedarville since 2015.

Mary McCulley, Assistant Professor of English. *Education:* B.A., Texas State University-San Marcos, 2006; M.A., Texas State University-San Marcos, 2008; Ph.D., Texas Christian University, (ABD). At Cedarville since 2015.

Cynthia Messer, Associate Professor of English, Yearbook Adviser. *Education:* B.A., Cedarville University, 1994; M.A., Wright State University, 1998. At Cedarville since 1998.

Julie Moore, Associate Professor of Literature, Director of the Writing Center. *Education:* B.A., Cedarville University, 1987; M.A., University of Dayton, 1989; The Ohio Writing Project, Miami University, 1993. At Cedarville since 1999.

Annis Shaver, 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.

Nellie Sullivan, 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.

Erin Weber, Assistant Professor of Spanish; *Education*; MA, University of Northern Iowa, 2012, BA, Cedarville University, 2002. At Cedarville since 2011.

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, Associate Professor of Spanish; Director of International Programs. *Education:* B.A., University of Massachusetts at Amherst, 1992; Undergraduate Studies, Universidad de Sevilla, Spain, 1990–1991; Undergraduate Studies, Universidad Internacional SEK, Santiago, Chile, 1992–1993; M.A., Florida State University, 1995; Ph.D., Universidad de San Jose, San Jose, Costa Rica, 2002. At Cedarville since 2000. Michelle Wood, Associate Professor of English. *Education:* B.A., Cedarville University, 1992; M.A., Wright State University, 1997; Ph.D., Indiana University of Pennsylvania, 2013. At Cedarville since 1995.

Emeriti

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.



Department of English, Literature, and Modern Languages English

English

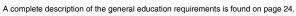
Course requirements for the English major involve 52 semester hours including:

| nours including: |
|--|
| English Core24 |
| ENG-2230 Advanced Composition3 |
| LIT-1990 First-Year Seminar3 |
| LIT-2090 Literary Analysis3 |
| LIT-2390 Survey of American Literature to 19003 |
| LIT-2430 Survey of British Literature to 18003 |
| LIT-2440 Survey of British Literature from 1800 to Present 3 |
| LIT-3350 Shakespeare3 |
| *LIT-4220 English Seminar3 |
| Studies in Modern Literature: Two Courses6 |
| LIT-3380 Contemporary British Literature3 |
| LIT-3400 Contemporary Studies in World Literature 3 |
| LIT-3510 Modern American Literature3 |
| LIT-4510 Recent American Literature3 |
| Historical Studies in English: Two Courses6 |
| ENG-3060 The English Language3 |
| LIT-3170 American Literature: 1820–18653 |
| LIT-3180 American Literature: 1865–19143 |
| LIT-3320 Renaissance Literature3 |
| LIT-3330 18th Century British Literature3 |
| LIT-3340 British Romantic and Victorian Literature3 |
| LIT-4450 Milton: Poetry and Selected Prose3 |
| Genre Studies: Two Courses6 |
| LIT 2120 History of Literary Criticism3 |
| LIT-2130 Dramatic Literature3 |
| LIT-3310 English Novel3 |
| LIT-3420 American Novel3 |
| LIT-4310 Literary Theory3 |
| LIT-4420 European Novel3 |
| Electives in English/Literature10 |
| *Capstone Course |

Capstone Course

English Major Curriculum Summary

| Proficiency Requirements | 0-5 |
|--|-----|
| Other General Education Requirements | |
| English Major Requirements | |
| Electives | |
| Total (minimum, not including proficiency) | 128 |



Suggested Four-Year Curriculum for a Major in English

| First year: | |
|--|----|
| BTGE-1720 Spiritual Formation | .3 |
| COM-1100 Fundamentals of Speech | .3 |
| ENG-1400 Composition | .3 |
| GBIO-1000 Principles of Biology | |
| GSS-1100 Politics and American Culture | .3 |
| HUM-1400 Introduction to the Humanities | |
| LIT-1990 First-Year Seminar | .3 |
| PEF-1990 Physical Activity and the Christian Life | 2 |
| History Elective | |
| Quantitative Elective | .3 |
| Social Science/Global Awareness Elective | |
| Total | .5 |
| | |
| Second year: | |
| BTGE-2730 Old Testament Literature | - |
| BTGE-2740 New Testament Literature | |
| ENG-2230 Advanced Composition | |
| LIT-2090 Literary Analysis | |
| 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 | |
| Electives | .7 |
| Total31 | .5 |
| Third | |
| Third year: | _ |
| BTGE-3755 Theology I | |
| BTGE-3765 Theology II | |
| LIT-3350 Shakespeare | |
| Literature Electives: Historical Studies in English | |
| Literature Electives: Studies in Modern Literature | |
| Electives | |
| Total | 33 |
| Fourth year: | |
| LIT-4220 English Seminar | 3 |
| Literature Electives: Genre Studies | 6 |
| Electives in English/Literature | |
| Humanities Elective | 3 |
| Electives | |
| Total | |
| | |





Department of English, Literature, and Modern Languages Foreign Language

Foreign Language

As students become acquainted with the language, lifestyles, and belief systems of another culture, they can develop greater insight into that culture. Knowledge of a second language can become a valuable support skill for careers in business, Christian ministry, education, government, and social services. The department provides a variety of language courses that allow students to develop basic communication skills and cultural awareness.

Guidelines for satisfying the general education requirement for foreign language are found on page 25. Students with previous language study may be eligible for test-out credit for first- and/or second-year language courses and should contact the department or the Office of the Registrar for details. Language students are also encouraged to consider the study abroad options listed under International Study Opportunities on page 21.

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 Intermediate Spanish I | 4 |
| SPAN-2720 Intermediate Spanish II | 3 |
| SPAN-3610 Spanish Composition | 3 |
| SPAN-3620 Spanish Conversation | 3 |
| SPAN-3640 Introduction to Hispanic Literature | 3 |
| SPAN-4610 Advanced Spanish Grammar | |
| *SPAN-4640 Research in Language and Culture | 3 |
| Two courses selected from the following | 6 |
| SPAN-4650 Civilization and Literature of Latin America I | 3 |
| SPAN-4670 Civilization and Literature of Latin America II | 3 |
| SPAN-4740 Civilization and Literature of Spain I | 3 |
| SPAN-4750 Civilization and Literature of Spain II | 3 |
| Electives in Spanish | 6 |
| | |

*Capstone Course

Spanish Major Curriculum Summary

| Proficiency Requirements | 0–5 |
|--|-----|
| Other General Education Requirements | |
| Spanish Major Requirements | 34 |
| 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 Spanish

| , . | |
|--|--|
| First year: BTGE-1720 Spiritual Formation 3 COM-1100 Fundamentals of Speech 3 ENG-1400 Composition 3 GBIO-1000 Principles of Biology 3.5 HUM-1400 Introduction to the Humanities 3 PEF-1990 Physical Activity and the Christian Life 2 SPAN-1710 Elementary Spanish I* 4 SPAN-1720 Elementary Spanish II* 4 History Elective 3 Elective 3 Total 31.5 | |
| Second year: BTGE-2730 Old Testament Literature | |
| Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 SPAN-3610 Spanish Composition 3 SPAN-3620 Spanish Conversation 3 SPAN-3640 Introduction to Hispanic Literature 3 Social Science Elective 3 Electives 16 Total 34 | |
| Fourth year: SPAN-4610 Advanced Spanish Grammar | |

* Elementary Spanish does not count toward the major.



Department of English, Literature, and Modern Languages Teacher Education Licensure Program

Teacher Education Licensure Program Language Arts Education — Integrated

The **integrated language arts major** prepares students to teach language arts in public and Christian schools in grades seven—12. Students who complete this curriculum will be licensed by the state of Ohio and the Association of Christian Schools International. The Ohio teaching license, through reciprocal agreements, is automatically recognized in 42 states. For additional information about teaching in other states, see the School of Education section of this catalog (page 83).

Course requirements involve 59 hours in integrated language arts and 38 hours in professional education requirements.

| Language Arts Education Core | 59 |
|--|----|
| EDSE-3300 Developmental Reading | |
| ENG-2070 Fundamentals of English Grammar | 3 |
| ENG-2220 Introduction to Creative Writing | 3 |
| ENG-2230 Advanced Composition | 3 |
| ENG-3010 Style and Mechanics for Writers | 3 |
| ENG-3060 The English Language | 3 |
| ENG-3070 English Grammar | 3 |
| ENG-3200 Practicum in Writing Instruction | 2 |
| LIT-1990 First-Year Seminar | |
| LIT-2090 Literary Analysis | |
| LIT-2340 Western Literature | 3 |
| 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 | |
| LIT-3100 Contemporary Young Adult Literature | |
| LIT-3350 Shakespeare | |
| LIT-3440 Multiethnic American Literature | |
| LIT-4100 Studies in Integrated Language Arts | |
| 3XXX or 4XXX LIT, ENG or LING Electives | 6 |
| Professional Education Requirements | 38 |

| Professional Education Requirements | 38 |
|---|----|
| EDSE-3000 Principles of Teaching AYA Learners | 4 |
| EDSE-4450 Adolescent/Young Adult Field Experience | 2 |
| *EDSE-4900 Student Teaching and Seminar: AYA | 12 |
| EDSP-2100 Exceptionalities and Behavior | 2 |
| EDSP-4250 Communication, Collaboration, and Inclusion | 2 |
| EDUC-1000 The Education Profession | 2 |
| EDUC-1050 Preliminary Student Involvement | 0 |
| EDUC-2050 Teaching Diverse Learners | 2 |
| EDUC-2100 e-Learning for Educators | 3 |
| EDUC-2300 Assessment and Differentiation | 2 |
| EDUC-2500 Educational Psychology | 3 |
| EDUC-3100 Philosophical Foundations of Education | |
| EDUC 3200 Faith and Learning Alignment | 1 |
| *Constant Course | |

^{*}Capstone Course

Integrated Language Arts Major Curriculum Summary

| Proficiency Requirements | 0–5 |
|---|-----|
| Other General Education Requirements | |
| Language Arts Integrated Major Requirements | |
| 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 Language Arts Education — Integrated

| First year: | |
|--|---|
| BTGE-1720 Spiritual Formation | 3 |
| COM-1100 Fundamentals of Speech | |
| EDUC-1000 The Education Profession | |
| ENG-1400 Composition | |
| ENG-2070 Fundamentals of English Grammar | |
| GBIO-1000 Principles of Biology | |
| GSS-1100 Politics and American Culture | |
| HUM-1400 Introduction to the Humanities | 3 |
| LIT-1990 First-Year Seminar | 3 |
| LIT-2340 Western Literature | 3 |
| PEF-1990 Physical Activity and the Christian Life | |
| Social Science Elective/Global Awareness | 3 |
| Total | 5 |
| Second year: | |
| BTGE-2730 Old Testament Literature | 3 |
| BTGE-2740 New Testament Literature | |
| EDSP-2100 Exceptionalities and Behavior | |
| EDUC-1050 Preliminary Student Involvement | |
| EDUC-2050 Teaching Diverse Learners | 2 |
| EDUC-2100 e-Learning for Educators | 3 |
| EDUC-2300 Assessment and Differentiation | 2 |
| EDUC-2500 Education Psychology | |
| ENG-3010 Style and Mechanics for Writers | 3 |
| ENG-3070 English Grammar | 3 |
| GMTH-1010 Introduction to Mathematics | 3 |
| LIT-2090 Literary Analysis | |
| LIT-2390 Survey of American Literature to 1900 | 3 |
| LIT-2430 Survey of British Literature to 1800 | |
| Total 3 | 6 |
| Third year: | |
| BTGE-3755 Theology I | 3 |
| EDSE-3000 Principles of Teaching AYA Learners | 4 |
| EDSE-3300 Developmental Reading | |
| EDUC-3200 Faith and Learning Alignment | |
| ENG-2220 Introduction to Creative Writing | |
| ENG-2230 Advanced Composition | |
| ENG-3060 The English Language | |
| LIT-2440 Survey of British Literature from 1800 to Present | 3 |
| LIT-3100 Contemporary Young Adult Literature | 3 |
| LIT-3350 Shakespeare | 3 |
| LIT-3440 Multiethnic American Literature | |
| LIT-4100 Studies in Integrated Language Arts | |
| History Elective | |
| Total 3 | 8 |
| Fourth year: | |
| BTGE-3765 Theology II | વ |
| EDSE-4450 Adolescent/Young Adult Field Experience | |
| EDSE-4900 Student Teaching and Seminar: AYA | 2 |
| EDSP-4250 Communication, Collaboration, and Inclusion | |
| EDUC-3100 Philosophical Foundations of Education | |
| ENG-3200 Practicum in Writing Instruction | 2 |
| 3XXX or 4XXX LIT, ENG, or LING Electives | _ |
| | 6 |
| Physical Science Elective | 6 |

Department of English, Literature, and Modern Languages Linguistics

Linguistics

The major in **linguistics** combines study of a core of courses in the field of linguistics, four semesters of modern language, and courses in concentration areas preparatory for careers and/or graduate study in fields related to linguistics.

| Course requirements involve 41 semester hours including: | |
|--|----|
| Linguistics requirements | 27 |
| ENG-3060 The English Language | 3 |
| FREN/GER/SPAN-2XXX Intermediate Foreign Language | 7 |
| LING-2070 Introduction to Linguistics | 2 |
| LING-3080 Linguistics for Language Learning | 3 |
| LING-3082 Phonetics | 3 |
| LING-3090 Sociolinguistics | |
| LING-3100 Principles of Language Acquisition | |
| LING-4100 Advanced Linguistics/Field Methods | |
| *Concentration requirements | |
| • | |

* Students select one concentration according to interests (minimum of 14 credit hours). Students need to complete any prerequisites listed for the courses included in this list but that are not listed for the linguistics major. Also, a minimum of 21 credit hours for the major must be from 3000/4000-level courses.

Biblical Languages and Philosophy (minimum of 14 credit hours selected from the following courses:

| BTBL-2510 Elementary Greek I | 4 |
|--------------------------------------|---|
| BTBL-2520 Elementary Greek II | |
| BTBL-3510 Intermediate Greek I | 3 |
| BTBL-3520 Intermediate Greek II | 3 |
| BTPA-2200 Introduction to Philosophy | 3 |
| BTPA-2240 Logic | 3 |
| BTPA-2260 World Religions | |
| BTPA-3250 Philosophy of Religion | |

Computer Science (minimum of 14 credit hours selected from the following courses:

| CS-1210 C++ Programming | 2 |
|--|---|
| CS-1220 Object-Oriented Design Using C++ | |
| CS-2210 Data Structures Using Java | 3 |
| CS-3410 Algorithms | |
| GMTH-1030 Precalculus (prerequisite for MATH-1710) | |
| MATH-1710 Calculus I (prerequisite for MATH-2510) | 5 |
| MATH 2510 Discrete Math for Computer Science | 3 |
| | |

Cultural Studies (minimum of 14 credit hours selected from the following courses:

| ANTH-1800 Cultural Anthropology | 3 |
|---|---|
| COM-2050 Communication Theory | |
| COM-2140 Intercultural Communication | 3 |
| COM-2300 Voices of Diversity | 3 |
| COM-3150 Gender, Politics and Communication | 3 |
| HLMU-3400 Global Music | 3 |
| SOC-2250 Popular Culture and Politics | |
| | |

Education and Psychology (minimum of 14 credit hours selected from the following courses:

| selected from the following courses: | |
|--|---|
| EDSP-2400 Language Development and Communication | |
| Disorders | 2 |
| EDUC-1000 The Education Profession | 2 |
| EDUC-2500 Educational Psychology | 3 |
| PYCH-1600 General Psychology | 3 |
| PYCH-1800 Cross-cultural Psychology | 3 |
| PYCH-2610 Statistics | 3 |
| PYCH-3650 Learning and Memory | 3 |
| PYCH-3760 Cognitive Neuroscience | |

English and Writing (minimum of 14 credit hours selected from the following courses:

| ENG-2070 Fundamentals of English Grammar | చ |
|---|---|
| ENG-2220 Introduction to Creative Writing | 3 |
| ENG-2230 Advanced Composition | 3 |
| ENG-3010 Style and Mechanics for Writers | |
| ENG-3070 English Grammar | 3 |
| ENG-3550 Writing Center Theory and Practice | 2 |
| HON-4155 Image and Word in a Visual Culture | 3 |
| - | |

Information Technology Management

ENG 2070 Fundamentals of English Grammar

| ITM-1500 Information Technology for Business | 2 |
|--|---|
| ITM-1900 Fundamentals of IT Management | 3 |
| ITM-2100 Database Management | |
| ITM-2300 Introduction to Programming | |
| ITM-3400 Data Communication and Networking | 3 |

Mathematics (minimum of 14 credit hours selected from the following courses:

| GMTH-1020 College Algebra | 3 |
|--|---|
| GMTH-1030 Precalculus | |
| MATH-1710 Calculus I | |
| MATH-1720 Calculus II | 5 |
| MATH-2510 Discrete Math for Computer Science | 3 |
| MATH-2800 LaTeX for Technical Documents | 1 |
| MATH-3110 Probability and Statistics I | 3 |
| MATH-4110 Probability and Statistics II | 3 |
| | |

Modern Languages

- 8 credit hours of a second modern language at the elementary level other than the one taken for the linguistics core requirement.
- 6 credit hours of one modern language at the 3000/4000 level. May be the same language used to meet the linguistics core requirement.

TESOL

| COM-2140 Intercultural Communication | 3 |
|--|---|
| ENG-3070 English Grammar | 3 |
| LING-3500 Methods of Teaching Foreign Language | 2 |
| LING-3710 TESOL Practicum for Non-Education Majors | |
| One of the following options: | |

One semester (4 credit hours) of elementary level modern language other than required of the linguistics major.

- 4-6 additional hours of one modern language at the 3000/4000 level. May be the same language used to meet the modern language requirement.

Linguistics Major Curriculum Summary

| Total (minimum, not including proficiency) | 128 |
|--|-----|
| Electives | |
| Linguistics Major Requirements | 41 |
| Other General Education Requirements | 48 |
| Proficiency Requirements | |

Department of English, Literature, and Modern Languages Linguistics

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

Suggested Four-Year Curriculum for a Major in Linguistics

| , , |
|---|
| First Year: BTGE-1720 Spiritual Formation |
| Total |
| Second Year: 3 BTGE-2730 Old Testament Literature |
| Third Year: BTGE-3755 Theology I |
| Fourth Year: BTGE-3765 Theology II 3 LING-4100 Advanced Linguistics/Field Methods 3 Electives 26 Total 32 |









Department of English, Literature, and Modern Languages Spanish Education—Multi-Age

Spanish Education — Multi-Age

The Spanish education major provides students with the cultural background and language skills necessary to function in the Spanish classroom and in the Spanish-speaking world. This major prepares students to teach in grades K-12 in public and Christian schools. For information about teaching in other states, see the School of Education section in this catalog.

Course requirements involve 46 credit hours in Spanish and 43 credit hours in professional education requirements including:

| Professional Education Requirements | |
|---|--|
| EDSE-3000 Principles of Teaching AYA Learners 4 | |
| EDSE-4000 Reading in the Content Area: AYA 3 | |
| EDSE-4450 Adolescent/Young Adult Field Experience 2 | |
| EDSP-2100 Exceptionalities and Behavior2 | |
| EDSP-4250 Communication, Collaboration, and Inclusion 2 | |
| EDUC-1000 The Education Profession2 | |
| EDUC-1050 Preliminary Student Involvement | |
| EDUC-2050 Teaching Diverse Learners2 | |
| EDUC-2100 e-Learning for Educators3 | |
| EDUC-2300 Assessment and Differentiation2 | |
| EDUC-2500 Educational Psychology | |
| EDUC-3100 Philosophical Foundations of Education 3 | |
| EDUC-3200 Faith and Learning Alignment | |
| *EDUC-4900 Student Teaching and Seminar-Multi-Age 12 | |
| SPAN-3500 Methods of Teaching Foreign Language | |
| *Capstone Course | |

Spanish Education Multi-Age Major Curriculum Summary

| Proficiency Requirements | 0–5 |
|--|-----|
| General Education Requirements | |
| Spanish Education Multi-Age Major Requirements | 46 |
| 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 Spanish Education — Multi-Age

| First year: BTGE-1720 Spiritual Formation 3 COM-1100 Fundamentals of Speech 3 EDUC-1000 The Education Profession 2 ENG-1400 Composition 3 GBIO-1000 Principles of Biology 3.5 GMTH-1010 Introduction to Mathematics 3 GSCI-1020 Principles of Physical Science 3.5 PEF-1990 Physical Activity and the Christian Life 2 SPAN-2710 Intermediate Spanish I 4 SPAN-2720 Intermediate Spanish II 3 LIT-2XXX Literature Elective 3 Total 33 |
|---|
| Second year: BTGE-2730 Old Testament Literature |
| Third year: BTGE-2740 New Testament Literature 3 BTGE-3755 Theology I 3 EDSE-3000 Principles of Teaching AYA Learners 4 EDSE-4000 Reading in the Content Area—AYA 3 EDUC-2500 Educational Psychology 3 EDUC-3200 Faith and Learning Alignment 1 Social Science Elective 3 Spanish Electives 15 Total 35 |
| Fourth year: BTGE-3765 Theology II |

Testing requirements: MASPN majors will score Advanced-Low on the ACTFL Oral Proficiency Interview and Writing Proficiency Test licensure exams.

Department of English, Literature, and Modern Languages Minors

Minors

Asian Studies Minor

| The Asian studies minor provides students with langua | ge |
|--|-------|
| skills and cultural background knowledge focused on devel | oping |
| a greater understanding of events, ideas, and beliefs from t | hat |
| region of the world. Course requirements for the Asian stud | lies |
| minor involve 20 credit hours including: | |
| CHN-1100, 1200 Elementary Chinese I and II | 8 |
| HIST-3210 History and Politics of Asia | 3 |
| LIT-3460 Contemporary East Asian Literature | 3 |
| Electives selected from the following | 6 |
| ANTH-1800 Cultural Anthropology | 3 |
| BTAT-3470 Cross-Cultural Ministry | 3 |
| BTPA-2260 World Religions | 3 |
| BUS-3910 International Business | 3 |
| COM-2140 Intercultural Communication | 3 |
| GEO-3520 World Regional Geography — Eastern | 3 |
| LIT-2330 World Mythology | 3 |

Creative Writing Minor

PYCH-1800 Cross-Cultural Psychology3

Editing and Publishing Minor

French Minor

German Minor

Latin American Studies Minor

The Latin American studies minor provides students with language skills and cultural background knowledge focused on developing a greater understanding of events, ideas, and beliefs from that region of the world. Course requirements for the Latin American studies minor involve 22 credit hours including: ANTH-1800 Cultural Anthropology3 INTL-3200 History and Politics of Latin America3 SPAN-2710 Intermediate Spanish I4 SPAN-3XXX or 4XXX Electives3 Electives selected from the following......6 GEO-3510 World Geography — West.......3 SPAN-3620 Conversation Spanish3 SPAN-4670 Civilization and Literature of Latin America II 3

Linguistics Minor

The **linguistics minor** is designed for students who want an introduction to linguistics. The linguistics minor provides an introduction to theoretical linguistics concepts and their application for a broad array of vocational fields. Course requirements involve 24 credit hours including:

| FREN/GER/SPAN-2XXX second year modern language | 7 |
|--|---|
| LING-2070 Introduction to Linguistics | 2 |
| LING-3080 Linguistics for Language Learning | |
| LING-3090 Sociolinguistics | |
| LING-3100 Principles of Language Acquisition | |
| Electives selected from the linguistics major concentrations | |

Literature Minor



Department of English, Literature, and Modern Languages Minors

Middle Eastern Studies Minor

The **Middle Eastern studies minor** provides students with language skills and cultural background knowledge focused on developing a greater understanding of events, ideas, and beliefs from that region of the world. Course requirements involve 22 credit hours including:

| ordan ridard iridiaanig. | |
|--|------|
| One year of Elementary Middle Eastern language | 6–8 |
| (or ARBC-1400 Introduction to Arabic Language | |
| and Culture | |
| *and one semester of HEB-1XXX Hebrew | 3–4) |
| (or ARBC-1410, 1420 Elementary Arabic I and II | |
| ANTH-1800 Cultural Anthropology | |
| INTL-3220 History and Politics of Middle East | 3 |
| Electives selected from the following | 8–10 |
| ARBC-2410, 2420 Intermediate Arabic I and II | 7 |
| ARBC-3500 Independent Study in Arabic Language | |
| and Culture | 1–3 |
| BTAT-2000 Introduction to Mission | 3 |
| BTAT-3450 Contemporary World Mission | |
| BTAT-3470 Cross-Cultural Ministry | 3 |
| BTPA-2260 World Religions | 3 |
| COM-2140 Intercultural Communication | 3 |
| GEO-3520 World Regional Geography — Eastern | 3 |
| LIT-2330 World Mythology | |
| PYCH-1800 Cross-Cultural Psychology | |
| -,, 3, | |

*Hebrew is through online or study abroad programs.

Spanish Minor

Spanish for Professionals Minor

Teaching English to Speakers of Other Languages Minor

The **TESOL minor** prepares students to teach English to speakers of other languages in multi-age classrooms without obtaining state teacher licensure. Students who complete the TESOL minor are eligible to receive an institution-endorsed certificate. To receive the certificate, a student must earn a 3.0 or higher for the courses of the minor. Non-native speakers of English must achieve a TOEFL score of 600 or higher on the paper exam or 250 on the computer exam and a score of 55 or higher on the Test of Spoken English or have department approval to be admitted to the minor. Course requirements for the TESOL minor involve 16 hours including:

| ENG-3070 English Grammar | 3 |
|--|---|
| LING-3080 Linguistics for Language Learning | 3 |
| LING-3090 Sociolinguistics | |
| LING-3100 Principles of Language Acquisition | |
| LING-3500 Methods of Teaching Foreign Language | |
| LING-3710 TESOL Practicum for Non-Education Majors | 2 |

Western European Studies Minor

The Western European studies minor provides students with language skills and cultural background knowledge focused on developing a greater understanding of events, ideas, and beliefs from that region of the world. Course requirements for the Western European studies minor involve 22 credit hours including: ANTH-1800 Cultural Anthropology3 FREN-2910, 2920 Intermediate French I and II......7 (or SPAN-2710, 2720 Intermediate Spanish I and II7) INTL-3230 History and Politics of Western Europe......3 Electives selected from the following......6 ART-4400 20th Century Art......3 GEO-3510 World Geography — West.......3 HIST-3070 Europe in the 18th and 19th Century 3 LIT-2330 World Mythology......3 LIT-4420 The European Novel......3 FREN/GER/SPAN 3XXX or 4XXX elect. not used in core 3-6







Department of History and Government

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Department of History and Government Mission Statement

Mission Statement

The goal of the Cedarville University Department of History and Government is to develop ethical, intellectually prepared, and articulate graduates who can refine and integrate an evangelical Christian worldview in their specific disciplines from a reasoned political, economic, and historical perspective, and who can then serve effectively in a diverse global community.

Department Objectives

Upon completion of courses in the Department of History and Government, students will:

- Evidence knowledge of the basic components of their respective academic disciplines.
- Participate in graduate study and/or practice as professionals in public and private professions.
- Demonstrate competence in the methods and tools of original quantitative and qualitative research and the ability to formulate and express the results.
- Exhibit critical analysis in evaluating historical and/or contemporary issues.
- Display the ability to integrate biblical truth with their academic disciplines through the investigation and study of society.

Personal Requirements

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

Department Requirements

To graduate with a degree from the Department of History and Government, students must earn a cumulative average of 2.0 or higher and a "C-" or higher in all courses required by their selected major. In addition, **all** majors must complete the following:

- A senior research project under the direction of a faculty advisor. This research project will also be directed by a three-member committee that shall be selected with the advice of their research director and will include at least one professional member outside the Department of History and Government.
- A presentation of selective senior research projects presented to invited faculty, students, and guests.
- A major field content assessment exam in their area at the scheduled time during the spring semester of their senior year (as required).

Technical Resources

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

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

Several of the department programs prepare students for careers directly following graduation. Through a variety of modalities (including field work and class presentation by practitioners), students are able to network with actual career representatives and on occasion be exposed to the technologies being utilized by a career area.

Programs of Study

The Department of History and Government offers the following programs of study:

Bachelor of Arts (B.A.) in:

- Criminal Justice
- Forensic Science
- History
- International Studies
- Political Science
- Prelaw
- Public Administration
- · Social Studies Education Integrated

Bachelor of Science (B.S.) in:

Forensic Science*

*In cooperation with the Department of Science and Mathematics; see page 176.

Minors

- · Church History
- Criminal Justice
- National Security
- History
- International Studies
- Political Science
- · Public Administration
- Public Policy
- Sociology

Cocurricular Opportunities

Each major has several professional organizations in which students may participate. Students can also broaden their understanding and knowledge through a variety of travel opportunities, internships, and student organizations.

Alpha Delta Nu

Alpha Delta Nu provides criminal justice students with the opportunity to enhance their professional development. Members are students who believe that a career in criminal justice is a ministry in a God-ordained institution, which is government. This organization promotes Christian character, leadership, and service through training, information, and networking to supplement academic studies. The society assists students to prepare for a transition to their professional field as practitioners.

Cedarville Legal Society

The Cedarville Legal Society organizes educational activities related to the application process for law school, preparing to take the LSAT, choosing a major or minor, and selecting a career in law. The organization plans activities such as visits to law schools, trips to court buildings, and events with legal professionals discussing the field of law and careers in that field. The Legal Society hosts forums on current legal issues, establishes relationships between students with common career goals, and promotes the profession of the law. The organization also sponsors the Cedarville Moot Court Team.

College Republicans

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

Epsilon Pi Lambda

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

Model United Nations Team

Model United Nations Team is a simulation of the United Nations system. Students assume the roles of ambassadors to the United Nations and negotiate current global issues. The Cedarville University Model UN Team participates in an

Department of History and Government Center for Political Studies

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
- Campaign Manager
- City Manager
- College Professor
- Community developer
- Diplomat
- Federal law enforcer
- · Forensic scientist

- Government worker
- · High school teacher
- Historical researcher
- Librarian
- Parole agent
- Politician
- Police officer
- Prison caseworker
- Prison manager (warden)
- Probation officer
- · Public administrator

Faculty

Mark C. Smith, Chair; Professor of Political Science; Director, Center for Political Studies. *Education:* B.A., Bryan College, 1992; M.A., Trinity International University, 1995; M.A., University of Georgia, 1997; Ph.D., University of Georgia, 2001. At Cedarville since 2004.

Marc Clauson, Professor of History and Law. *Education:* B.S., Marshall University, 1978; M.A., Marshall University, 1979; J.D., West Virginia University, 1982; M.Th., Liberty University, 1993; M.A., Liberty University, 1993; Ph.D., University of the Orange Free State, South Africa, 2001. At Cedarville since 2002.

Glen Duerr, Assistant Professor of International Studies. *Education:* B.A., University of Western Ontario, 2003; M.A., University of Windsor, 2005; Ph.D., Kent State, 2012. At Cedarville since 2012.

Emily Ferkaluk, Instructor of Political Science. *Education:* B.A., Cedarville University, 2011; M.A., University of Dallas, 2014; ABD, University of Dallas, in process. At Cedarville since 2016.

Frank Jenista, Professor of International Studies. *Education:* B.A., Cedarville University, 1968; M.A., University of Dayton, 1970; Ph.D., University of Michigan, 1978. At Cedarville since 2000.

Thomas Mach, Assistant Vice President for Academics; Professor of History. Education: B.A., Cedarville University, 1988; M.A., Cleveland State University, 1989; Ph.D., University of Akron, 1996. At Cedarville since 2000.

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.

Patrick Oliver, Associate Professor of Criminal Justice. Education: A.A., University of Cincinnati, 1977; B.A., Baldwin Wallace College, 1981; M.B.A., Baldwin Wallace College, 1991; Ph.D., Antioch University, 2013; Penn State University Police Executive School, 1989; FBI Law Enforcement Executive Development School, 1993; Ohio Association Chiefs of Police Executive Leadership College, 1994; Executive Management Institute, 1997. At Cedarville since 2005.

Robert Parr, Senior Professor of Sociology. *Education:* B.R.E., Grand Rapids Baptist College, 1967; M.R.E., Grand Rapids Baptist Seminary, 1970; M.A., Michigan State University, 1982; M.S.W., The Ohio State University, 1990; Ph.D., The Ohio State University, 1987. At Cedarville since 1980.

David Rich, Professor of Public Administration and Political Science. *Education:* B.A., Cedarville University, 1983; M.P.A., University of Dayton, 1988; D.P.A., Western Michigan University, 2006. At Cedarville since 2000.

Kevin Sims, 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.

Richard Tison, Assistant Professor of History and AYASS Coordinator. *Education:* B.A., Oakland University, 1994; M.A., Baylor University, 1999; Ph.D., University of Oklahoma, 2008. At Cedarville since 2011.

Robert Vaughn, Associate Professor of Criminal Justice. *Education:* B.A., The Ohio State University, 1993; J.D., Capital University Law School, 1998. At Cedarville since 2009.

Emerit

Joseph Halsey, Professor Emeritus of Political Science. *Education:* B.A., Morehead State University, 1965; M.Ed., Xavier University, 1969; Ph.D., University of Cincinnati, 1990. At Cedarville from 1970 to 2000.

James McGoldrick, Professor Emeritus of Social Science. *Education:* B.S., Temple University, 1961; M.A., Temple University, 1964; graduate study, Dropsie University, 1962; St. Joseph's College, 1968; University of Arkansas, 1969; Ph.D., West Virginia University, 1974; postdoctoral study, University of Scranton, 1977; Pennsylvania State University, summer, 1981; St. Joseph's University, summer 1982; University of Houston, summer 1984. At Cedarville from 1973 to 2001.

Allen Monroe, Professor Emeritus of Social Science. *Education:* B.A., Shelton College, 1957; graduate study, University of Florida, 1958; M.A., Montclair State College, 1965; Ph.D., The Ohio State University, 1970; postdoctoral study, Westminster Theological Seminary, 1978. At Cedarville from 1965 to 2002.

Department of History and Government Criminal Justice

Criminal Justice

The **criminal justice major** prepares students for careers in the criminal justice system. Such careers include law enforcement and correctional activities at all levels of government that have the potential to progress to positions of leadership. The curriculum for the criminal justice major follows criteria proposed by the Academy of Criminal Justice Sciences.

Mission Statement

The mission of Cedarville University's Criminal Justice Program is to prepare students for graduate studies or entry-level positions in a variety of criminal justice fields and to prepare leaders who serve with integrity from a biblical worldview.

Program Objectives

Students will:

- Practice a biblical worldview for lifelong leadership and service in the criminal justice profession.
- Apply critical thinking skills within the context of the criminal justice profession.
- Demonstrate effective oral and written communication skills for use in the criminal justice profession.
- Conduct research effectively within the criminal justice profession.
- Be prepared to become entry-level practitioners in criminal justice or pursue graduate studies.
- Practice interacting effectively with persons of diverse populations.

Core Values

Students must be able to practice the following core values that are key to the criminal justice profession:

- Integrity Demonstrates high moral character and ethical standards in all matters public and private.
- Service Orientation Demonstrates lifelong leadership and service to all mankind.
- Human Relations Skills Demonstrates the ability to effectively interact with other people.
- Team Compatibility Demonstrates the ability to work with others in a cooperative, caring, and supportive manner to achieve goals of the group.
- Performance Driven Demonstrates the ability to set and achieve performance goals and standards.

| Course requirements involve 61 semester hours including: | |
|---|----|
| Criminal Justice Core | |
| CRJU-1310 Introduction to Criminal Justice | 3 |
| CRJU-1350 Career Planning for Criminal Justice Personnel | 1 |
| CRJU-2200 Criminology | 3 |
| CRJU-2310 Juvenile Delinquency | 3 |
| CRJU-3300 Corrections | |
| CRJU-3350 Criminal Law | |
| CRJU-3360 American Judicial System | |
| CRJU-3400 Criminal Procedure | |
| CRJU-3700 Financial Management | |
| CRJU-4150 Homeland Security | |
| CRJU-4200 Police Administration | |
| CRJU-4320 Criminal Investigation | 3 |
| CRJU-4630 American Constitutional Law:Civil Liberties and | |
| Rights | |
| *CRJU-4900 Research Issues in Criminal Justice | |
| GSS-3640 Qualitative Methodology and Reasoning | |
| GSS-3650 Quantitative Methodology | 3 |
| POLS-2620 American State and Local Government | |
| Electives selected from | 12 |
| CRJU-3990 Criminal Justice Internship | 3 |
| Homeland Security electives | |
| CRJU-3500 Foundations of Emergency Management3 | |
| CRJU-3990 Criminal Justice Internship3-12 | |
| CRJU-4160 International and Domestic Terrorism3 | |

| Legal Studies electives | |
|---|---|
| CRJU-3390 Criminal Evidence | 3 |
| CRJU-4500 Comparative Criminal Justice | 3 |
| POLS-3760 Jurisprudence | 3 |
| POLS-4640 American Constitutional Law: Government | |
| Powers and Federalism | 3 |
| Local Law Enforcement electives | |
| BTAT-3510 Introduction to Urban Ministries | 3 |
| CRJU-2840 Concepts of Chemical Dependency | 3 |
| POLS/PUAD-3600 Public Administration | 3 |
| | |

*Capstone Course

NOTE: Criminal justice students are expected to complete at least three credit hours of internship as part of their major elective hours. These hours can be obtained through a variety of internship opportunities in the local area including a semester study program through the Advanced Technical Intelligence Center (ATIC) in Fairborn, Ohio or the Ohio Peace Officer Basic Training program in Xenia, Ohio. The department has partnered with ATIC and the Greene County Career Center to provide this opportunity to students at Cedarville. Both the Ohio Peace Officer Basic Training Program and the Advanced Technical Intelligence Center (ATIC) provide unique opportunities for Cedarville students. The Peace Officer Basic Training Program is a police academy utilized by many departments throughout Ohio. When combined with Cedarville's B.A. in criminal justice, students will be completely prepared to enter the job market in a variety of areas in law enforcement. ATIC offers training in the field of intelligence for use in both the national and the local arenas. In an effort to help fill the human capital pipeline with trained, cleared professionals, ATIC offers intelligence internships to college juniors, seniors, and graduate students. To achieve this, ATIC partners with colleges and universities to offer a semester of training and research experience to qualified candidates. In addition, through agreements with government customers, and due to the classified content that students may be exposed to during the course, students who participate in the program will be submitted for a U.S. security clearance. If the government grants the clearance, the students are even more marketable and better prepared to enter the Intelligence Community (IC), private industry, academia, and other government organizations.

Criminal Justice Major Curriculum Summary

| Proficiency Requirements | 0-5 |
|--|-----|
| Other General Education Requirements | |
| Criminal Justice Major Requirements | |
| General Electives | |
| Total (minimum, not including proficiency) | 128 |



Department of History and Government Forensic Science

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

Suggested Four-Year Curriculum for a Major in Criminal Justice

| First year: BTGE-1720 Spiritual Formation 3 COM-1100 Fundamentals of Speech 3 CRJU-1310 Introduction to Criminal Justice 3 CRJU-1350 Career Planning for Criminal Justice Personnel 1 ENG-1400 Composition 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 PEF-1990 Physical Activity and the Christian Life 2 Biological Science Elective 3.5 LIT-2XXX Literature Elective 3 Physical Science Elective 3.5 Total 31 |
|---|
| Second year: 3 BTGE-2730 Old Testament Literature |
| Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CRJU-3300 Corrections 3 CRJU-3350 Criminal Law 3 CRJU-3360 American Judicial System 3 CRJU-3400 Criminal Procedure 3 CRJU-3700 Financial Management 3 CRJU-3990 Criminal Justice Internship 3 Criminal Justice Electives 9 Total 33 |
| Fourth year: CRJU-4150 Homeland Security |

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) course work and substantial laboratory work in the sciences. Students completing this program will also earn a minor in criminal justice and participate in an internship in a state crime laboratory their junior and senior years. This program is provided in partnership with the Department of Science and Mathematics. Program requirements can be found on page 176.





Department of History and Government History

History

The **history major** prepares students for graduate work or for careers in a variety of fields including government, law, business, education, public history, and the Gospel ministry. Traditionally a key component of the classical liberal arts education, history and the skills demanded by the historical process provide a necessary foundation for learning. Course work encourages students to evaluate the historical narrative based on biblical principles, resulting in an integrative understanding.

| Course requirements involve 39 hours including: | |
|---|----|
| GSS-3640 Qualitative Methodology and Reasoning | 3 |
| HIST-1110 United States History I | |
| HIST-1120 United States History II | 3 |
| HIST-2000 Introduction to History | 3 |
| HIST-2010 History of Civilization I | 3 |
| HIST-2020 History of Civilization II | |
| HIST-3000 Introduction to Historiography | 3 |
| *HIST-4700 Research in American History | 3 |
| (or HIST-4710 Research in European History | |
| (or HIST-4720 Research in Asian History | 3 |
| Elective hours in history (3000- or 4000-level) | 12 |
| Non-Western History elective selected from | 3 |
| HIST-3080 History of Russia and Eastern Europe | 3 |
| HIST-3200 History and Politics of Latin America | 3 |
| HIST-3210 History and Politics of Asia | 3 |
| HIST-3220 History and Politics of the Middle East | 3 |
| *Capstone Course | |

History Major Curriculum Summary

| Total (minimum, not including proficiency) | 128 |
|--|-------|
| Electives | 36-44 |
| History Major Requirements | 39 |
| Other General Education Requirements | 45-53 |
| 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 History

| First year: BTGE-1720 Spiritual Formation COM-1100 Fundamentals of Speech ENG-1400 Composition GSS-1100 Politics and American Culture. HIST-1110 United States History I HIST-1120 United States History II HUM-1400 Introduction to the Humanities. PEF-1990 Physical Activity and the Christian Life. Quantitative Elective. Electives. Total | 33333333 |
|---|-----------|
| Second year: BTGE-2730 Old Testament Literature. BTGE-2740 New Testament Literature HIST-2000 Introduction to History. HIST-2010 History of Civilization I. HIST-2020 History of Civilization II Biology Elective. Humanities Elective LIT-2XXX Literature Elective Physical Science Elective Electives Total | 333333533 |
| Third year: BTGE-3755 Theology I | 333333339 |
| Total | 32 |



Department of History and Government International Studies

International Studies

The **international studies major** provides students with a political view of the international community. Utilizing courses in economics, geography, history, literature, and political science, this program prepares students for careers in areas such as diplomacy, intelligence, international media, humanitarian assistance, international relations, and missions.

| Course requirements involve 54 hours, including. |
|---|
| International Studies Core21 |
| ANTH-1800 Cultural Anthropology3 |
| BTPA-2260 World Religions3 |
| BUS-3910 International Business |
| COM-2140 Intercultural Communication3 |
| (or PYCH-1800 Cross-Cultural Psychology3) |
| HIST-2010 History of Civilization I |
| (or HIST-2020 History of Civilization II |
| INTL-3190 Global Issues3 |
| INTL/POLS-3790 Comparative Politics3 |
| Social Science Requirements12 |
| ECON-3350 Comparative Economic Systems3 |
| GSS-3640 Qualitative Methodology and Reasoning 3 |
| (or GSS-3650 Quantitative Methodology |
| 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 Economics3 |
| ECON-3380 Economic Development |
| and Political Economy3 |
| HIST-3080 History of Russia and Eastern Europe3 |
| INTL-3200 History and Politics of Latin America3 |
| INTL-3210 History and Politics of Asia3 |
| INTL-3220 History and Politics of the Middle East3 |
| INTL-3230 History and Politics of Western Europe3 |
| INTL-4050 Diplomacy of the Major Powers3 |
| INTL-4160 International and Domestic Terrorism3 |
| INTL-4800 Seminar in International Studies |
| INTL-4980 Independent Study in:: |
| International Studies1–3 |
| At least one course from Biblical and Theological Studies 3 |
| BTAT-2000 Introduction to Mission |
| BTAT-3450 Contemporary World Missions |
| BTAT-3470 Cross-Cultural Ministry3 |
| At least one course in English, literature, and modern |
| languages |
| LIT-2340 Western Literature |
| LIT-3400 Contemporary Studies in World Literature3 LIT-XXXX Any Non-American Literature Course3 |
| |
| LING-3080 Linguistics for Language Learning3 |

Additional required cognates

Certified proficiency in a foreign language at a level equivalent to four 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 six weeks). Travel study must be approved by the department.

International Studies Major Curriculum Summary:

| mitorriational otalaiso major ourinouram ourinnary | - |
|--|------|
| Proficiency Requirements | 0–5 |
| Other General Education Requirements | 39 |
| International Studies Requirements | |
| Required Cognates | 0–15 |
| Electives | |
| Total (minimum, not including proficiency) | 128 |
| | |

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

Suggested Four-Year Curriculum for a Major in International Studies

| First year: |
|--|
| ANTH-1800 Cultural Anthropology3 |
| BTGE-1720 Spiritual Formation |
| COM-1100 Fundamentals of Speech3 |
| ENG-1400 English Composition3 |
| GSS-1100 Politics and American Culture |
| HUM-1400 Introduction to the Humanities |
| PEF-1990 Physical Activity and the Christian Life2 |
| Biological Science Elective |
| LIT-2XXX Literature Elective |
| Physical Science Elective |
| Quantitative Elective |
| Total |
| |
| Second year: |
| BTGE-2730 Old Testament Literature3 |
| BTGE-2740 New Testament Literature3 |
| BTPA-2260 World Religions3 |
| COM-2140 Intercultural Communication3 |
| (PYCH-1800 Cross-Cultural Psychology3) |
| GSS-3640 Qualitative Methodology and Reasoning3 |
| (or GSS-3650 Quantitative Methodology3) |
| Elementary Foreign Language requirement0–8 |
| Social Science Electives6 |
| Electives4–12 |
| Total |
| Third was |
| Third year: BTGE-3755 Theology I3 |
| BTGE-3755 Theology II |
| BUS-3910 International Business 3 |
| BUS-39 IU International Business |
| ECON-3350 Comparative Economic Systems |
| INTL-3190 Global Issues |
| INTL-3650 International Relations |
| Intermediate Foreign Language requirement0–7 |
| Electives 6–13 |
| Total |
| Fourth year: |
| HIST-2010 History of Civilization I |
| (or HIST-2020 History of Civilization II3) |
| INTL-3790 Comparative Politics |
| INTL-4850 Research in International Studies |
| Social Science Electives |
| Electives |
| Total 31 |



Department of History and Government Political Science

Political Science

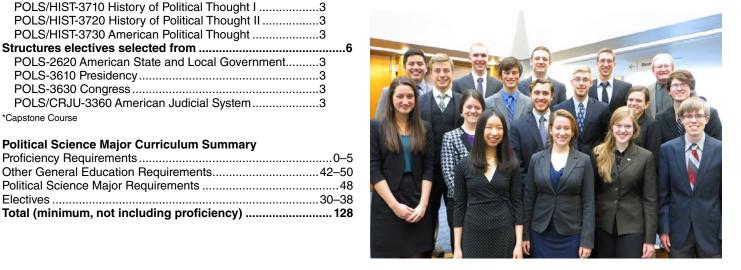
The **political science major** is designed to prepare students for advanced graduate education in the areas of American politics, international relations, political philosophy, and law. It also prepares students for careers in public policy analysis, international affairs, various levels of government, campaign management, interest groups, journalism, and many others. Course requirements involve 48 semester hours including:

| Political Science Core | |
|---|---------|
| GSS-3640 Qualitative Methodology and Reasoning | 3 |
| GSS-3650 Quantitative Methodology | 3 |
| POLS-2000 Introduction to Political Science | 3 |
| POLS/PUAD-3600 Public Administration | 3 |
| POLS-3650 International Relations | 3 |
| POLS-3790 Comparative Politics | 3 |
| *POLS-4900 Research in Political Science | 3 |
| Behavior electives selected from | |
| POLS-2250 Politics and Popular Culture | |
| POLS-3640 Campaigns and Elections | |
| POLS-3690 Public Policy | .3 |
| POLS/HIST-4620 Church and State in America | |
| International elective selected from | . 3 |
| POLS/GEO/HIST/INTL-3080 History and Politics of | |
| Russia and Eastern Europe | 3 |
| POLS-3190 Global Issues | |
| POLS/HIST/GEO/INTL-3200 History and Politics of | .0 |
| Latin America | 3 |
| POLS/HIST/GEO/INTL-3210 History and Politics of Asia . | |
| POLS/HIST/GEO/INTL-3220 History and Politics of | .0 |
| the Middle East | 2 |
| POLS/HIST/INTL-3400 History of American | .3 |
| Foreign Policy | 2 |
| POLS/HIST/INTL-4050 Diplomacy of the Major Powers | .ა ი |
| Law electives selected from | .o |
| POLS-3760 Jurisprudence | |
| POLS-3760 Jurispruderice | .3 |
| | 0 |
| Civil Liberties and RightsPOLS-4640 American Constitutional Law — | .3 |
| | 0 |
| Government and Federalism | |
| Political thought electives selected from | |
| POLS/HIST-3710 History of Political Thought I | |
| POLS/HIST-3720 History of Political Thought II | |
| POLS/HIST-3730 American Political Thought | |
| Structures electives selected from | |
| POLS-2620 American State and Local Government | |
| POLS-3610 Presidency | |
| POLS-3630 Congress | |
| POLS/CRJU-3360 American Judicial System | .3 |
| *Capstone Course | |
| | |
| Political Science Major Curriculum Summary | 0 - |
| Proficiency Requirements | 0-5 |
| Other General Education Requirements | |
| Political Science Major Requirements | |
| Electives | .30–38 |

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

Suggested Four-Year Curriculum for a Major in Political Science

| First year: | |
|---|----|
| BTGE-1720 Spiritual Formation | 3 |
| COM-1100 Fundamentals of Speech | |
| ENG-1400 Composition | o |
| GSS-1100 Politics and American Culture | د |
| | |
| HUM-1400 Introduction to the Humanities | |
| PEF-1990 Physical Activity and the Christian Life | |
| Biological Science Elective | |
| Physical Science Elective | |
| Electives | 9 |
| Total | 33 |
| Canand | |
| Second year: BTGE-2730 Old Testament Literature | 0 |
| | |
| BTGE-2740 New Testament Literature | |
| GSS-3640 Qualitative Methodology and Reasoning | 3 |
| GSS-3650 Quantitative Methodology | |
| POLS-2000 Introduction to Political Science | |
| Humanities Elective | |
| LIT-2XXX Literature Elective | |
| Structures Electives | 6 |
| Electives | 5 |
| Total | 32 |
| | |
| Third year: | |
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | |
| POLS-3650 International Relations | 3 |
| Behavior Electives | 6 |
| International Electives | 3 |
| Political Thought Electives | 6 |
| Electives | 6 |
| Total | |
| | |
| Fourth year: | |
| POLS-3600 Public Administration | _ |
| POLS-3790 Comparative Politics | 3 |
| POLS-4900 Research in Political Science | 3 |
| Law Electives | 6 |
| Electives | |
| Total | |



Department of History and Government Prelaw

Prelaw

The **prelaw major** is designed to prepare students for law school. The curriculum seeks to provide necessary course content and to develop thinking and analytic skills needed to perform well on the Law School Admissions Test (LSAT) and in law school.

| Course requirements involve 64 semester hours including: | |
|--|---|
| Prelaw Core Requirements | |
| ACCT-2110 Principles of Accounting I | |
| ACCT-2120 Principles of Accounting II | 3 |
| BTPA-2200 Introduction to Philosophy | 3 |
| BTPA-2240 Logic | 3 |
| BUS-2180 Business Law I | |
| ECON-2330 Microeconomics | |
| GSS-3640 Qualitative Methodology and Reasoning | |
| GSS-3650 Quantitative Methodology | 3 |
| HIST-1110 United States History I | |
| HIST-1120 United States History II | 3 |
| HIST-2010 History of Civilization I | |
| HIST-2020 History of Civilization II | 3 |
| HIST-3710 History of Political Thought I: | |
| Ancient Through Medieval | 3 |
| POLS-3760 Jurisprudence | 3 |
| POLS-4630 American Constitutional Law: Civil Liberties | |
| and Rights | 3 |
| POLS-4640 American Constitutional Law: Governments | |
| Powers and Federalism | |
| *POLS-4700 Prelaw Seminar | |
| SOC-1300 Introduction to Sociology | 3 |
| PWID-3010 Style and Mechanics for Writers | |
| PWID-3011 Legal Research and Writing | 1 |
| Electives selected from the following | 6 |
| COM-3120 Argumentation | } |
| HIST-3720 History of Political Thought II: | |
| Modern and Contemporary | |
| POLS-3630 Congress | |
| PUAD-3600 Public Administration | } |
| | |

*Capstone Course

Prelaw Major Curriculum Summary

| Proficiency Requirements | 0–5 |
|--|-----|
| Other General Education Requirements | |
| Prelaw 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 Prelaw

| First year: | |
|--|---------|
| BTGE-1720 Spiritual Formation | .3 |
| COM-1100 Fundamentals of Speech | .3 |
| ENG-1400 Composition | |
| GSS-1100 Politics and American Culture | |
| HIST-1110 United States History I | |
| HIST-1120 United States History II | . ა |
| HIST-1120 United States History II | . პ |
| HUM-1400 Introduction to the Humanities | .3 |
| PEF-1990 Physical Activity and the Christian Life | .2 |
| Biological Sciences Elective | .5 |
| LIT-2XXX Literature Elective | |
| Physical Science Elective | |
| Total | 33 |
| | |
| Second year: | |
| ACCT-2110 Principles of Accounting I | .3 |
| ACCT-2120 Principles of Accounting II | |
| BTGE-2730 Old Testament Literature | |
| BTGE-2740 New Testament Literature | |
| BTPA-2200 Introduction to Philosophy | .3 |
| BTPA-2240 Logic | .3 |
| BUS-2180 Business Law I | .3 |
| ECON-2330 Microeconomics | .3 |
| HIST-2010 History of Civilization I | 3 |
| HIST-2020 History of Civilization II | વ |
| Global Awareness Elective | |
| Total | |
| 10tal | აა |
| Third year: | |
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| GSS-3640 Qualitative Methodology and Reasoning | ٠. د |
| GSS-3650 Quantitative Methodology | |
| HIST-3710 History of Political Thought I: Ancient Through Medieval | o. |
| | |
| POLS-3760 Jurisprudence | . პ |
| POLS-4640 American Constitutional Law: Governments | |
| Powers and Federalism | |
| SOC-1300 Introduction to Sociology | .3 |
| PWID-3010 Style and Mechanics for Writers | .3 |
| PWID-3011 Legal Research and Writing | .1 |
| Prelaw Electives | |
| Total | 31 |
| | |
| Fourth year: | |
| POLS-4630 American Constitutional Law: | |
| Civil Liberties and Rights | .3 |
| POLS-4700 Prelaw Seminar | |
| Prelaw Electives | |
| Electives | |
| Total | |
| IUIai | |

Department of History and Government Public Administration

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, nonprofit 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 63 semester hours including: | |
|--|----|
| Public Administration Requirements | 63 |
| ACCT-2110 Principles of Accounting I | 3 |
| ACCT-2120 Principles of Accounting II | |
| ACCT-4150 Government and Nonprofit Accounting | 3 |
| BUS-2180 Business Law I | |
| ECON-2330 Microeconomics | |
| ECON-2340 Macroeconomics | |
| GSS-3640 Qualitative Methodology and Reasoning | 3 |
| GSS-3650 Quantitative Methodology | |
| ITM-1510 Software Tools for Business | |
| MGMT-3500 Principles of Organization and Management | 3 |
| MRKT-3600 Principles of Marketing | |
| POLS-2620 American State and Local Government | 3 |
| POLS-4630 American Constitutional Law: | _ |
| Civil Liberties and Rights | |
| PUAD-3100 Public Budgeting | 3 |
| PUAD-3390 Public Finance | |
| PUAD-3600 Public Administration | |
| PUAD-3690 Public Policy | |
| *PUAD-4800 Applied Public Administration | |
| PWID-3010 Style and Mechanics for Writers | 3 |
| PWID-3011 Legal Research and Writing | 1 |
| Electives selected from | |
| COM-3230 Organizational Communication | |
| COM-3250 Interviewing | |
| MGMT-3530 Human Resources Management | 3 |
| MGMT-3550 Organizational Behavior | 3 |
| *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) | |
| rotal (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | |

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

Suggested Four-Year Curriculum for a Major in Public Administration

| rirst year: |
|---|
| BTGE-1720 Spiritual Formation |
| COM-1100 Fundamentals of Speech |
| ENG-1400 Composition |
| GSS-1100 Politics and American Culture |
| |
| HUM-1400 Introduction to the Humanities3 |
| PEF-1990 Physical Activity and the Christian Life2 |
| POLS-2620 American State and Local Government3 |
| Biological Sciences Elective |
| History Elective |
| LIT-2XXX Literature Elective |
| |
| Physical Science Elective |
| Total |
| |
| Second year: |
| ACCT-2110 Principles of Accounting I |
| ACCT-2120 Principles of Accounting II |
| BTGE-2730 Old Testament Literature |
| BTGE-2740 New Testament Literature |
| |
| BUS-2180 Business Law I |
| ECON-2330 Microeconomics |
| ECON-2340 Macroeconomics3 |
| ITM-1510 Software Tools for Business |
| MRKT-3600 Principles of Marketing |
| |
| Global Awareness Elective |
| Humanities Elective3 |
| Total |
| Third on an |
| Third year: |
| BTGE-3755 Theology I3 |
| BTGE-3765 Theology II |
| GSS-3650 Quantitative Methodology |
| MGMT-3500 Principles of Organization and Management3 |
| PUAD-3390 Public Finance |
| PUAD-3600 Public Administration |
| |
| PUAD-3690 Public Policy3 |
| Public Administration Electives |
| PWID-3010 Style and Mechanics for Writers3 |
| PWID-3011 Legal Research and Writing1 |
| Electives |
| Total |
| 10tal |
| Fourth year: |
| ACCT-4150 Government and Nonprofit Accounting |
| |
| GSS-3640 Qualitative Methodology and Reasoning3 |
| POLS-4630 American Constitutional Law: Civil Liberties and Rights 3 |
| PUAD-3100 Public Budgeting3 |
| PUAD-4800 Applied Public Administration |
| |
| Public Administration Floatives |
| Public Administration Electives |
| Public Administration Electives |



Department of History and Government Teacher Education Licensure Program

Teacher Education Licensure Program Social Studies Education — Integrated

The **integrated social studies major** prepares students to teach social studies in public and Christian schools in grades 7–12. Students who complete this curriculum will be licensed by the state of Ohio and the Association of Christian Schools International. The Ohio teaching license, through reciprocal agreements, is automatically recognized in 42 states. For additional information about teaching in other states, see the School of Education section of this catalog.

| Course requirements involve 40 semester hours including: |
|--|
| Integrated Social Studies Core40 |
| ANTH-1800 Cultural Anthropology3 |
| ECON-2110 Essentials of Economics |
| GEO-3510 World Regional Geography—Western3 |
| GEO-3520 World Regional Geography—Eastern |
| GSS-1100 Politics and American Culture |
| GSS-3810 Clinical Teaching in Social Studies I |
| GSS-3820 Clinical Teaching in Social Studies II |
| HIST-1110 United States History I |
| HIST-1120 United States History II |
| HIST-2010 History of Civilization I |
| HIST-2020 History of Civilization II |
| HIST-3200 History and Politics of Latin America |
| (or HIST-3210 History and Politics of Asia3) |
| |
| (or HIST-3220 History and Politics of the Middle East3) |
| HIST/SOC-3750 Social Movements |
| SOC-1300 Introduction to Sociology |
| SSED-3800 Teaching Social Studies: AYA |
| |
| Teacher Education4 |
| EDSE-3000 Principles of Teaching AYA Learners4 |
| EDSE-4000 Reading in the Content Area: AYA3 |
| EDSE-4450 Adolescent/Young Adult Field Experience 2 |
| *EDSE-4900 Student Teaching and Seminar: AYA 12 |
| EDSP-2100 Exceptionalities and Behavior2 |
| EDSP-4250 Communication, Collaboration, and Inclusion 2 |
| EDUC-1000 The Education Profession2 |
| EDUC-1050 Preliminary Student Involvement |
| EDUC-2050 Teaching Diverse Learners2 |
| EDUC-2100 e-Learning for Educators |
| EDUC-2300 Assessment and Differentiation |
| EDUC-2500 Educational Psychology3 |
| EDUC-3100 Philosophical Foundations of Education 3 |
| EDUC-3200 Faith and Learning Alignment |
| *Capstone Course |
| |
| Students must also select a concentration in economics, |
| geography, history, political science, or sociology. |
| Economics Concentration1 |
| ECON-2340 Macroeconomics |
| ECON-3340 History of Economic Thought |
| GSS-3650 Quantitative Methodology |
| Economics electives selected from6 |
| ECON-3310 Money and Financial Markets3 |
| ECON-3350 Comparative Economic Systems3 |
| ECON-3360 International Trade Economics |
| ECON-3390 Public Finance |
| 20011 0000 1 40110 1 1141100 11111111111 |

| Geography Concentration | 12 |
|---|------------|
| GSS-3650 Quantitative Methodology | 3 |
| Geography Electives selected from | 0 |
| (must differ from core) HIST-3200 History and Politics of Latin America | |
| HIST-3210 History and Politics of Asia | |
| HIST-3220 History and Politics of The Middle East | |
| INTL-4850 Research in International Studies | |
| IIVI E-4000 Flesearch III International Studies | 0 |
| History Concentration | 12 |
| Student must choose one of the following: | |
| HIST-2000 Introduction to History | |
| HIST-3000 Introduction to Historiography | |
| History electives selected from | 9 |
| HIST-3030 History of Christianity: Pre-Reformation | 3 |
| HIST-3040 History and Politics of the | |
| British Isles and Canada | |
| HIST-3050 Renaissance and Reformation Europe | |
| HIST-3070 Europe in the 18th and 19th Centuries | |
| HIST-3080 History of Russia and Eastern Europe | |
| HIST-3110 Early American History | 3 |
| HIST-3120 History of Recent Contemporary America | |
| HIST-3130 Civil War and Reconstruction | |
| HIST-3230 History and Politics of Western Europe HIST-4050 Diplomacy of the Major Powers | |
| HIST-4440 Special Topics in History | ა |
| HIST-4900 Independent Study in History | I-3 1_2 |
| 1 113 1-4300 independent Study in 1 listory | 1–5 |
| Political Science Concentration | 12 |
| GSS-3650 Quantitative Methodology | |
| POLS-2620 American State and Local Government | |
| Political science elective selected from | |
| POLS-2000 Introduction to Political Science | 3 |
| POLS-3360 American Judicial Systems | |
| POLS-3650 International Relations | 3 |
| POLS-3710 History Political Thought I: | |
| Ancient Through Medieval | 3 |
| POLS-3720 History Political Thought II: | _ |
| Modern Through Contemporary | 3 |
| POLS-4050 Diplomacy of the Major Powers | |
| POLS-4620 Church and State in America | 3 |
| POLS-4630 American Constitutional Law: | 0 |
| Civil Liberties and Rights | 3 |
| Sociology Concentration | 12 |
| GSS-3650 Quantitative Methodology | 3 |
| SOC-4720 Social Theory | |
| Sociology electives selected from | 6 |
| SOC-2200 Criminology | 3 |
| SOC-2310 Juvenile Delinquency | 3 |
| SOC-2400 Marriage and the Family | |
| SOC-2840 Concepts of Chemical Dependency | 3 |
| SOC-2900 Ethics in the Helping Professions | 3 |
| SOC-3330 Social Stratification | |
| SOC-3340 Sociology of Religion | 3 |
| SOC-3710 Family and Society | |
| SOC-3730 Social Problems | 3 |
| | |
| Social Studies Education — Integrated Major | |
| Curriculum Summary | ^ - |
| Proficiency Requirements | |
| Other General Education RequirementsIntegrated Social Studies Education Major Requirements | 39–47 |
| Teacher Education Requirements | |
| Total (minimum, not including proficiency) | 132 |
| | |

Department of History and Government Minors

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

Suggested Four-Year Curriculum for a Major in Social Studies Education — Integrated

| First year: |
|--|
| BTGE-1720 Spiritual Formation |
| GBIO-1000 Principles of Biology |
| COM-1100 Fundamentals of Speech |
| EDUC-1000 The Education Profession |
| EDUC-1050 Preliminary Student Involvement |
| ENG-1400 Composition |
| HIST-1110 United States History I |
| HIST-1120 United States History II |
| HUM-1400 Introduction to the Humanities |
| PEF-1990 Physical Activity and the Christian Life2 |
| Physical Science Elective |
| Quantitative Requirement3 |
| Total |
| Cocond voor |
| Second year: BTGE-2730 Old Testament Literature3 |
| BTGE-2740 New Testament Literature |
| ECON-2110 Essentials of Economics |
| EDSP-2100 Exceptionalities and Behavior |
| EDUC-2050 Teaching Diverse Learners |
| EDUC-2100 e-Learning for Educators |
| EDUC-2300 Assessment and Differentiation |
| EDUC-2500 Educational Psychology |
| HIST-2010 History of Civilization I |
| HIST-2020 History of Civilization II |
| Concentration Requirement6 |
| Tatal |
| Total |
| |
| Third year: |
| Third year: BTGE-3755 Theology I |
| Third year: BTGE-3755 Theology I |
| Third year: BTGE-3755 Theology I |
| Third year: BTGE-3755 Theology I |
| Third year: BTGE-3755 Theology I |
| Third year: BTGE-3755 Theology I |
| Third year: BTGE-3755 Theology I |
| Third year: BTGE-3755 Theology I |
| Third year: BTGE-3755 Theology I |
| Third year: BTGE-3755 Theology I |
| Third year: BTGE-3755 Theology I |
| Third year: BTGE-3755 Theology I |
| Third year: BTGE-3755 Theology I |
| Third year: BTGE-3755 Theology I |
| Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 EDSE-3000 Principles of Teaching AYA Learners 4 EDUC-3200 Faith and Learning Alignment 1 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 3 (or HIST-3210 History and Politics of Asia 3) (or HIST-3220 History and Politics of the Middle East 3) SOC-1300 Introduction to Sociology 3 SSED-3800 Teaching Social Studies: AYA 2 SEConcentration Requirement 6 Total 33 |
| Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 EDSE-3000 Principles of Teaching AYA Learners 4 EDUC-3200 Faith and Learning Alignment 1 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 3 (or HIST-3210 History and Politics of Asia 3) (or HIST-3220 History and Politics of the Middle East 3) SOC-1300 Introduction to Sociology 3 SSED-3800 Teaching Social Studies: AYA 2 SEConcentration Requirement 6 Total 33 Fourth year: ANTH-1800 Cultural Anthropology 3 |
| Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 EDSE-3000 Principles of Teaching AYA Learners 4 EDUC-3200 Faith and Learning Alignment 1 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 3 (or HIST-3210 History and Politics of Asia 3) (or HIST-3220 History and Politics of the Middle East 3) SOC-1300 Introduction to Sociology 3 SSED-3800 Teaching Social Studies: AYA 2 SEConcentration Requirement 6 Total 33 Fourth year: ANTH-1800 Cultural Anthropology 3 EDSE-4000 Reading in the Content Area: AYA 3 |
| Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 EDSE-3000 Principles of Teaching AYA Learners 4 EDUC-3200 Faith and Learning Alignment 1 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 3 (or HIST-3210 History and Politics of Asia 3) (or HIST-3220 History and Politics of the Middle East 3) SOC-1300 Introduction to Sociology 3 SSED-3800 Teaching Social Studies: AYA 2 SEConcentration Requirement 6 Total 33 Fourth year: ANTH-1800 Cultural Anthropology 3 EDSE-4000 Reading in the Content Area: AYA 3 EDSE-4450 Adolescent/Young Adult Field Experience 2 |
| Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 EDSE-3000 Principles of Teaching AYA Learners 4 EDUC-3200 Faith and Learning Alignment 1 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 3 (or HIST-3210 History and Politics of Asia 3) (or HIST-3220 History and Politics of the Middle East 3) SOC-1300 Introduction to Sociology 3 SSED-3800 Teaching Social Studies: AYA 2 SEConcentration Requirement 6 Total 33 Fourth year: ANTH-1800 Cultural Anthropology 3 EDSE-4000 Reading in the Content Area: AYA 3 EDSE-4450 Adolescent/Young Adult Field Experience 2 EDSE-4900 Student Teaching and Seminar: AYA 12 |
| Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 EDSE-3000 Principles of Teaching AYA Learners 4 EDUC-3200 Faith and Learning Alignment 1 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 3 (or HIST-3210 History and Politics of Asia 3) (or HIST-3220 History and Politics of the Middle East 3) SOC-1300 Introduction to Sociology 3 SSED-3800 Teaching Social Studies: AYA 2 SEConcentration Requirement 6 Total 33 Fourth year: ANTH-1800 Cultural Anthropology 3 EDSE-4000 Reading in the Content Area: AYA 3 EDSE-4450 Adolescent/Young Adult Field Experience 2 EDSE-4900 Student Teaching and Seminar: AYA 12 EDSP-4250 Communication, Collaboration, and Inclusion 2 |
| Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 EDSE-3000 Principles of Teaching AYA Learners 4 EDUC-3200 Faith and Learning Alignment 1 GEO-3510 World Regional Geography — Western 3 GSC-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 3 (or HIST-3210 History and Politics of Asia 3) (or HIST-3220 History and Politics of the Middle East 3) SOC-1300 Introduction to Sociology 3 SSED-3800 Teaching Social Studies: AYA 2 SEConcentration Requirement 6 Total 33 Fourth year: ANTH-1800 Cultural Anthropology 3 EDSE-4000 Reading in the Content Area: AYA 3 EDSE-4900 Student Teaching and Seminar: AYA 12 EDSP-4250 Communication, Collaboration, and Inclusion 2 EDUC-3100 Philosophical Foundations of Education 3 |
| ## Third year: ## BTGE-3755 Theology I ## BTGE-3765 Theology II ## BTGE-3765 Theology II ## BTGE-3765 Theology II ## BTGE-3700 Principles of Teaching AYA Learners ## 4 ## EDUC-3200 Faith and Learning Alignment ## 1 ## 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 I ## 1 ## HIST-3200 History and Politics of Latin America ## 3 ## (or HIST-3210 History and Politics of Asia ## 3) ## SOC-1300 Introduction to Sociology ## 3 ## SSED-3800 Teaching Social Studies: AYA ## 2 ## SEC-3800 Teaching Social Studies: AYA ## 2 ## SEC-3800 Teaching Social Studies: AYA ## 2 ## SEC-3800 Cultural Anthropology ## 3 ## Fourth year: ## ANTH-1800 Cultural Anthropology ## 3 ## EDSE-4000 Reading in the Content Area: AYA ## 3 ## SEDSE-4900 Student Teaching and Seminar: AYA ## 2 ## EDSE-4900 Student Teaching and Seminar: AYA ## 2 ## EDSP-4250 Communication, Collaboration, and Inclusion ## 2 ## EDUC-3100 Philosophical Foundations of Education ## 3 ## HIST-3750 Social Movements ## 3 |
| Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 EDSE-3000 Principles of Teaching AYA Learners 4 EDUC-3200 Faith and Learning Alignment 1 GEO-3510 World Regional Geography — Western 3 GSC-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 3 (or HIST-3210 History and Politics of Asia 3) (or HIST-3220 History and Politics of the Middle East 3) SOC-1300 Introduction to Sociology 3 SSED-3800 Teaching Social Studies: AYA 2 SEConcentration Requirement 6 Total 33 Fourth year: ANTH-1800 Cultural Anthropology 3 EDSE-4000 Reading in the Content Area: AYA 3 EDSE-4900 Student Teaching and Seminar: AYA 12 EDSP-4250 Communication, Collaboration, and Inclusion 2 EDUC-3100 Philosophical Foundations of Education 3 |

Minors

Church History Minor

Course requirements for a minor in church history involve 18

Criminal Justice Minor

History Minor

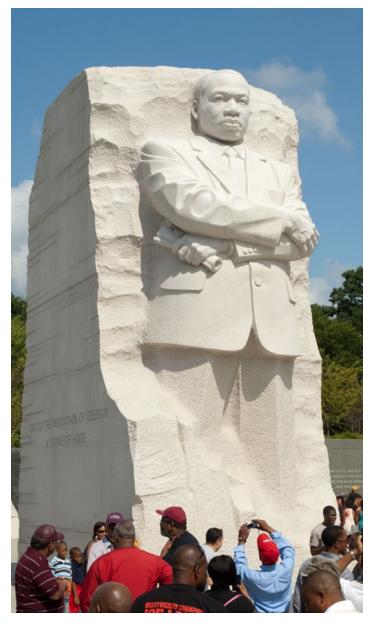
Course requirements for a minor in **history** involve 17 semester hours including:

| HIST-1110, 1120 United States History | 6 |
|---------------------------------------|---|
| HIST-2010 History of Civilization I | |
| HIST-2020 History of Civilization II | |
| HIST-XXXX History Electives | |



Department of History and Government Minors

| International Studies Minor Course requirements for a minor in international studies involve 18 semester hours including: Courses selected from the international studies core requirements |
|---|
| National Security Minor Course requirements for a minor in national security involve 21 semester hours including: GSS-4990 Social Science/History Internship* |
| *ATIC Analyst Boot Camp **Prerequisites waived for national security minor |
| Political Science Minor Course requirements for a minor in political science involve 18 semester hours including: POLS-2000 Introduction to Political Science |
| Public Administration Minor Course requirements for a minor in public administration involve 18 semester hours including: MGMT-3500 Principles of Organization and Management |
| Public Policy Minor Course requirements for a minor in public policy involve 22 semester hours including: POLS-3630 Congress |
| Sociology Minor Course requirements for a minor in sociology involve 18 semester hours including: |





Interdisciplinary Studies

| Mission Statement | 125 |
|----------------------------|-----|
| Personal Requirements | 125 |
| Programs of Study | 125 |
| Cocurricular Opportunities | 125 |
| Career Opportunities | 125 |
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|---------------------------------------|-----|
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| Interdisciplinary Studies | |
| Course Descriptions | 253 |
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| | |

Interdisciplinary Studies Mission Statement

Mission Statement

Interdisciplinary programs at the University are designed to encourage the thinking, research, and applications that help students understand the interrelationships among disciplines that are characteristic of a true liberal arts education. Drawing from several academic disciplines, these programs promote learning that broadens and deepens the student's view of knowledge and the world as a whole.

Personal Requirements

Students who choose interdisciplinary programs typically possess a unique love for learning. They desire to know about many areas and enjoy discovering the relationships among the various academic disciplines that comprise the body of knowledge. Though most college preparatory curricula provide a good measure of breadth through their coverage of the basic disciplines, students interested in interdisciplinary programs should choose electives that sharpen their thinking skills and expand their intellectual horizons. Advanced high school courses in writing, literature, mathematics, science, economics, world history, or social science are recommended.

Although background in foreign language is not required for admission to the programs, foreign language competency is necessary for effective international service. Consequently, two or more units of foreign language in high school are strongly recommended.

Programs of Study

The University offers the following interdisciplinary programs:

- · Honors Program
- Individualized Studies
- Liberal Arts
- Reserve Officer Training Corps (ROTC)
 - · Air Force
 - Army

Cocurricular Opportunities

Tau Delta Kappa (TDK) provides an opportunity for fellowship, ministry, exchange of ideas, and support of students involved in the honors program. 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. Admitted freshmen students who meet the minimum standardized examination score and GPA requirements will be invited to apply to the Honors Program. Prospective students must complete a separate application, which is available through Admissions.

A limited number of students are admitted into the program each fall. Students enrolled in the honors program are required to complete four honors courses in addition to a senior seminar or project.

Two of these courses are taken in the freshman year in a sequence entitled "The Making of the Modern Mind," which traces the development of philosophic, cultural, and artistic traditions against the background of the history of western civilization. These two courses meet general education requirements in humanities, philosophy, and history.

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 20 students.

In the senior year, each honors student chooses a capstone experience from two options: (1) Honors students may complete a traditional honors thesis, working one on one with a faculty mentor; or (2) Honors students may participate in the Honors Senior Colloquium during the two semesters of the their senior academic year. This seminar provides a capstone experience focusing developing a Christian worldview in the midst of a contemporary society that is often inhospitable to biblical principle.

Through the honors program, Cedarville University encourages superior scholarship, allows a thorough integration of the various disciplines, and provides the student an opportunity to better understand how all knowledge relates to its source in God. The honors program offers an adventure in the world of ideas, coupled with practical incentives for transcribing faith and learning into the larger culture for the glory of God and the benefit of men and women in His image.

Course requirements for the honors program involve 16 semester hours including:

- Participation in a one-hour interdisciplinary colloquium each semester (HON-4910, HON-4920) or an interdisciplinary research project (HON-4950).

*If taken together, these two courses replace the following general education requirements:

If either of these two courses are taken individually, the course may be designated as five semester hours of credit toward either the humanities or history general education requirements.

Individualized Studies

The **individualized studies program** serves students with specialized career aspirations that may not fit with a particular major program offered at Cedarville University or those who desire a traditional, broad undergraduate program before proceeding to graduate school. The program leads to a Bachelor of Arts degree and includes the following provisions:

- A student interested in an individualized studies program may submit a proposal after completing 20 semester hours at Cedarville University, exclusive of Advanced Placement, CLEP, and transfer credits, with GPA of 3.25 or higher.
- 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

Interdisciplinary Studies Reserve Officer Training Corps (ROTC)

- approval form must be signed by a faculty sponsor and by the department Chair of one of the major components of the program.
- Each program must be approved by the standing Individualized Studies Committee appointed by the Vice President for Academics. Decisions of this committee may be appealed to the Deans Council.
- When the Individualized Studies Committee approves a student's proposed program, it will assign an academic advisor for the student.
- Changes to the approved program must be approved by the faculty advisor and the Individualized Studies Committee.
- For transcript purposes, the program will typically be called a B.A. degree with an individualized program in liberal arts.
- 7. The individualized program must meet all of the Cedarville University bachelor's degree requirements as detailed in the University catalog. In particular, the following items must be satisfied:
 - · A GPA in the program of 2.50 or higher.
 - At least one-third of the program courses must be taken at Cedarville University.
 - At least one-third of the program courses must be taken at the 3000-level or higher.
 - "D" grades will not count as meeting the requirements of the individualized program.
 - A capstone course or experience appropriate to the individualized program and approved by the Individualized Studies Committee.

Reserve Officer Training Corps (ROTC)

Air Force Aerospace Studies

As a Cedarville University (CU) student, you have the opportunity to become an Air Force officer through a cooperative agreement with Wright State University's (WSU) Department of Aerospace Studies. WSU is the home of Detachment 643 and the host site for local colleges and universities to provide the Air Force Reserve Officer Training Corps (AFROTC) program to full-time students pursuing a baccalaureate degree. While courses are taken through CU, leadership laboratories and classes are taught at WSU. CU provides transportation.

The AFROTC program is designed to produce Air Force officers who will be successful leaders and managers. All officers are placed in positions of responsibility, facing challenging and rewarding career opportunities while using the most advanced technology in the world.

The AFROTC program is organized in two portions: the General Military Course (GMC), typically taken during freshman and sophomore years, and the Professional Officer Course (POC), usually taken during junior and senior years or during the last two years prior to graduation. A corresponding Leadership Laboratory for each year (where students apply leadership skills, demonstrate command and effective communication, develop physical fitness, and practice military customs and courtesies) is also required. For more information on ROTC course descriptions, please visit wright.edu/air-force-rotc/cadet-life/rotc-classes.

- The GMC is a no-obligation introduction to the Air Force.
 The course covers the Foundations of the Unied States
 Air Force (USAF) and the Evolution of USAF and Space Power.
- The POC curriculum covers communicative skills, Air Force Leadership Studies, National Security Affairs and Preparation for Active Duty.

Although the program is open to all majors, selection to the POC is very competitive and depends on your performance. All AFROTC students have the opportunity to apply for scholarships that pay partial or full tuition, books and charges, plus a monthly

stipend (stipend amount depends on your progress in the program). These scholarships are available on a competitive basis to students who demonstrate academic and leadership potential. Scholarships with the greatest availability are in the areas of engineering, mathematics, computer science, and physics. High school students should apply for a scholarship no later than December 1st of their senior year. Apply at **afrotc. com**. In-college students will apply for scholarships through their AFROTC instructor. If you are a freshman or sophomore seeking a challenge and want to serve your country, sign up for the AES-1210 course.

For further information about AFROTC at CU, students should contact:

The Department of Aerospace Studies

Wright State University Dayton, Ohio 45435 Phone: 937-775-2730 Email: afrotc@wright.edu

Website: wright.edu/air-force-rotc

or

Cedarville University Admissions Office

Phone: 1-937-766-7700 Email: admiss@cedarville.edu



Army

As a Cedarville University student, you have the opportunity to be commissioned as an officer in the United States Army while the Army helps pay for your education. All classes, labs, and physical training are conducted at Central State University, located four miles south of Cedarville. All Army ROTC courses are taken through Cedarville University. Cedarville University provides transportation.

The objectives of the Army ROTC program are:

- Recruit men and women possessing qualities of leadership, duty, respect, selfless service, honor, integrity, and personal courage.
- Train students during their four-year academic program to serve as commissioned officers in the United States Army, National Guard, and Army Reserves.
- Retain students through quality education experience and challenging military training.
- Commission cadets as Second Lieutenants in the United States Army, leaders of America's most precious resource, our sons and daughters.

Students can enroll in the two, three, and four year Army ROTC program. Students can qualify for the two year program through prior military service, current military service, or attending the Cadet Initial Entry Training between the sophomore and junior years. The three and four year program consists of completing

Interdisciplinary Studies Liberal Arts

the basic course during the freshman and sophomore years and advanced course during the junior and senior years.

Scholarships are available. Students can earn two, three, and four year national and campus based scholarships that pay for 100 percent of tuition and fees, books, and provide a monthly stipend from \$300–\$500 based on academic progression.

High school students should apply for a national scholarship no later than February of their senior year. Apply at **goarmy. com/rotc**. College students will apply through their Army ROTC instructor.

Students can participate in worldwide military training opportunities while still pursuing their degree at Cedarville University. Opportunities include: Airborne School, Air Assault School, Foreign Language Program, Cultural Understanding and Language Program, and Cadet Troop Leaders Training.

Students can pursue a career as an active duty officer or dual career with civilian employment and service as an officer in the Nation Guard or Army Reserves.

Interested students should visit the Cedarville ROTC website, **cedarville.edu/rotc** or contact Cedarville University Admissions at 1-800-CEDARVILLE (233-2784).

Liberal Arts

The **Bachelor of Arts degree with a major in liberal arts,** having the breadth and depth of a traditional liberal arts degree, allows some student latitude in choosing courses.

Students must apply to the program to gain entrance. Students can apply at the end of the second semester of the freshman year for entry into the sophomore year. To be considered for this program, a student must meet the following requirements:

- 1. Maintain a 3.25 GPA or higher
- 2. Supply two faculty recommendations.

Freshmen may enter Cedarville University as a liberal arts major with provisional approval if they have either a 27 ACT or 1210 SAT and a 3.5 high school GPA; however, they must meet the requirements at the end of their freshman year in order to stay in the program.

A liberal arts committee made up of one faculty member from each area of the core will decide if a student will be granted entry into the program. The appropriate faculty member in each area of the core will serve as the academic advisor. The chair of the liberal arts committee will sign as department Chair on all forms.

The liberal arts committee will approve all programs decided on by the student and the advisor. Proposed programs and capstone projects must be approved by the end of the sophomore year.

Students must include a study abroad component of at least six weeks within their four years of study. A summer travel study experience would satisfy this requirement.

| Course requirements involve 70 hours, including: | |
|---|------|
| LART-1000 Introduction to Liberal Arts | 1 |
| LART-4940 Senior Research Methodology | 1 |
| *LART-4950 Senior Project | 2 |
| Foreign Language through Intermediate Level | 6-15 |
| Core requirements | 30 |
| Humanities requirements (English, Literature) | |
| Fine Arts requirements (Art, Music, Theatre) | . 6 |
| Social Science and History requirements (History, | |
| Political Science, Sociology) | . 6 |
| Science and Mathematics | |
| Theology and Philosophy (at least one course | |
| in Philosophy) | . 6 |
| Concentration requirements2 | |
| 3000- and 4000-level courses chosen within one of the five core requirement | ! |

*Capstone Course

| Liberal Arts Major Curriculum Summary: | |
|--|-----|
| Proficiency Requirements | 0–5 |
| General Education Requirements | 51 |
| Liberal Arts major Requirements | 70 |
| Electives | 7 |
| Total (minimum, not including proficiency) | 128 |

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

Suggested Four-Year Curriculum for a Major in Liberal Arts

| First year: BTGE-1720 Spiritual Formation 3 COM-1100 Fundamentals of Speech 3 ENG-1400 Composition 3 HUM-1400 Introduction to the Humanities 3 LART-1000 Introduction to Liberal Arts 1 LIT-2XXX Literature Elective 3 PEF-1990 Physical Activity and the Christian Life 2 Biology Elective 3.5 History Elective 3 Humanities Elective 3 Quantitative Elective 3 Total 30.5 |
|---|
| Second year: 3 BTGE-2730 Old Testament Literature |
| Third year: BTGE-3755 Theology I 3 GSS-1100 Politics and American Culture 3 Core Requirements 15 Intermediate Foreign Language 7 Social Science Elective 3 Total 31 |
| Fourth year: BTGE-3765 Theology II 3 LART-4940 Senior Research Methodology 1 LART-4950 Senior Project 2 Concentration Requirements 21 Electives 7 Total 34 |





Department of Kinesiology and Allied Health

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Department of Kinesiology and Allied Health Mission Statement

Mission Statement

The Cedarville University Department of Kinesiology and Allied Health seeks to equip stewards to be competent, Christ-honoring professionals in health care and education.

Preparation

Students planning to pursue a major within the Department of Kinesiology and Allied Health 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 allied health, exercise science, and athletic training should take biology, chemistry, physics, and mathematics courses at least through algebra II.

Department Requirements

Once students declare a major within the Department of Kinesiology and Allied Health, they are expected to maintain a level of personal physical fitness which demonstrates a commitment to professionalism and biblical stewardship. A mandatory 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 page 83 for the School of Education admission and retention requirements for multi-age physical education and multi-age health education.

Programs of Study

The Department of Kinesiology and Allied Health offers the following programs of study:

Bachelor of Arts (B.A.) in:

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

Bachelor of Science (B.S.) in:

- Allied Health
- · Exercise Science

Minors

- Coaching
- Sport Ministry

Cocurricular Opportunities

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

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

Career Opportunities

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

- · Administrator of youth activities and youth organizations
- Athletic director
- Athletic trainer
- Cardiac rehab
- Clinical exercise physiologist
- Coach
- Corporate wellness director
- · Exercise specialist
- Fitness and recreation management
- Health teacher (pre-K to 12)
- Personal trainer
- Physical education teacher (pre-K to 12)
- Physical therapist
- Physician assistant
- · Professional athletic team management
- · Sport marketing and promotion
- Sport ministry organization management

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 and since 1992.

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

Kurt Beachy, Instructor of Athletic Training; Certified Athletic Trainer (BOC), ATEP Clinical Education Coordinator. *Education:* B.S., University of New Mexico; M.S., University of Iowa. At Cedarville since 2012.

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



Department of Kinesiology and Allied Health Athletic Training Mission Statement

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

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

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

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

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

Emeriti

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

Staff Clinical Instructor

Amanda Meade, AT. *Education:* B.S., Wilmington College, 2010; M.S., University of Kentucky, 2012. At Cedarville since 2012.



Athletic Training Mission Statement

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

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

Students will be able to:

- Provide quality 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.
- Instruct patients and clients in areas of prevention, stewardship, and convalescence.
- Implement organizational skills to manage an athletic training facility.
- Locate, interpret, and implement athletic training research.
- Conduct themselves professionally with Christlike characteristics.

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

Personal Requirements

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

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

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

Department of Kinesiology and Allied Health Program Requirements

Program Requirements Admission and Retention

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

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

Retention criteria include:

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

Graduation requirements include:

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

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





Department of Kinesiology and Allied Health Athletic Training

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 eight-10 hours per week) with one of the on-campus Certified Athletic Trainers to expose them to collegiate athletic training services. The junior and senior years are devoted to completing extensive clinical assignments, including working under the supervision of a certified athletic trainer with a lower extremity sport, an upper extremity sport, an equipment intensive sport such as football, and a general medical clinical education rotation. Upperclassmen can anticipate working 12-20 hours per week. Students majoring in athletic training are not encouraged to participate in intercollegiate athletics.

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

Athletic Training Major Curriculum Summary

| Total (minimum, not including proficiency) | |
|--|------------|
| Electives | 3–11 |
| Athletic Training Major Requirements | 72.5 |
| General Education Requirements4 | 4.5 - 52.5 |
| 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 Athletic Training

| First year: |
|--|
| ATRN-1300 Emergency Care3 |
| ATRN-1500 Introduction to Athletic Training1 |
| ATRN-1550 Basic Athletic Training3 |
| BTGE-1720 Spiritual Formation3 |
| COM-1100 Fundamentals of Speech3 |
| ENG-1400 Composition3 |
| GBIO-1000 Principles of Biology |
| GBIO-2010 Human Anatomy and Physiology I4 |
| GMTH-1020 College Algebra3 |
| PEF-1990 Physical Activity and the Christian Life2 |
| PYCH-1600 General Psychology3 |
| Total31.5 |
| Second year: |
| ATRN-2560 Lower Body Injury Management |
| ATRN-2570 Upper Body Injury Management3 |
| ATRN-2650 Therapeutic Exercise3 |
| ATRN-2901 Clinical I2 |
| ATRN-2902 Clinical II2 |
| BTGE-2730 Old Testament Literature3 |
| BTGE-2740 New Testament Literature3 |
| ESS-3800 Sport Psychology3 |
| ESS-3900 Physiology of Exercise3 |
| ESS-3940 Structural Kinesiology3 |
| GBIO-2015 Human Anatomy and Physiology II4 |
| |
| Total |
| Total 32 Third year: ATRN-3550 Organization and Administration in Athletic Training 3 ATRN-3660 Therapeutic Modalities 3 ATRN-3770 Pharmacology 3 ATRN-3903 Clinical III |
| Total |
| Total 32 Third year: ATRN-3550 Organization and Administration in Athletic Training |
| Total 32 Third year: ATRN-3550 Organization and Administration in Athletic Training |
| Total 32 Third year: ATRN-3550 Organization and Administration in Athletic Training 3 ATRN-3660 Therapeutic Modalities 3 ATRN-3770 Pharmacology 3 ATRN-3903 Clinical III 2 ATRN-3904 Clinical IV 2 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 EXSC-4600 Research in Exercise Science 3 GSS-1100 Politics and American Culture 3 |
| Total 32 Third year: ATRN-3550 Organization and Administration in Athletic Training |
| Total 32 Third year: ATRN-3550 Organization and Administration in Athletic Training .3 ATRN-3660 Therapeutic Modalities .3 ATRN-3770 Pharmacology .3 ATRN-3903 Clinical III .2 ATRN-3904 Clinical IV .2 BTGE-3755 Theology I .3 BTGE-3765 Theology II .3 EXSC-4600 Research in Exercise Science .3 GSS-1100 Politics and American Culture .3 HUM-1400 Introduction to the Humanities .3 MAHE-3030 Nutrition .3 Total .31 |
| Total 32 Third year: ATRN-3550 Organization and Administration in Athletic Training 3 ATRN-3660 Therapeutic Modalities 3 ATRN-3770 Pharmacology 3 ATRN-3903 Clinical III 2 ATRN-3904 Clinical IV |
| Total 32 Third year: ATRN-3550 Organization and Administration in Athletic Training 3 ATRN-3660 Therapeutic Modalities 3 ATRN-3770 Pharmacology 3 ATRN-3903 Clinical III 2 ATRN-3904 Clinical IV 2 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 EXSC-4600 Research in Exercise Science 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 MAHE-3030 Nutrition 3 Total 31 Fourth year: ATRN-4560 General Medical Issues 3 |
| Total 32 Third year: ATRN-3550 Organization and Administration in Athletic Training 3 ATRN-3660 Therapeutic Modalities 3 ATRN-3770 Pharmacology 3 ATRN-3903 Clinical III 2 ATRN-3904 Clinical IV 2 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 EXSC-4600 Research in Exercise Science 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 MAHE-3030 Nutrition 3 Total 31 Fourth year: ATRN-4560 General Medical Issues 3 ATRN-4905 Clinical V 2 |
| Total 32 Third year: ATRN-3550 Organization and Administration in Athletic Training 3 ATRN-3660 Therapeutic Modalities 3 ATRN-3770 Pharmacology 3 ATRN-3903 Clinical III 2 ATRN-3904 Clinical IV 2 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 EXSC-4600 Research in Exercise Science 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 MAHE-3030 Nutrition 3 Total 3 ATRN-4560 General Medical Issues 3 ATRN-4905 Clinical V 2 ATRN-4906 Clinical VI 2 |
| Total 32 Third year: ATRN-3550 Organization and Administration in Athletic Training 3 ATRN-3660 Therapeutic Modalities 3 ATRN-3770 Pharmacology 3 ATRN-3903 Clinical III 2 ATRN-3904 Clinical IV 2 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 EXSC-4600 Research in Exercise Science 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 MAHE-3030 Nutrition 3 Total 3 ATRN-4560 General Medical Issues 3 ATRN-4905 Clinical V 2 ATRN-4906 Clinical VI 2 ESSE-3100 Strength and Conditioning 3 |
| Total 32 Third year: ATRN-3550 Organization and Administration in Athletic Training 3 ATRN-3660 Therapeutic Modalities 3 ATRN-3770 Pharmacology 3 ATRN-3903 Clinical III 2 ATRN-3904 Clinical IV 2 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 EXSC-4600 Research in Exercise Science 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 MAHE-3030 Nutrition 3 Total 3 ATRN-4560 General Medical Issues 3 ATRN-4905 Clinical V 2 ATRN-4906 Clinical VI 2 ESSE-3100 Strength and Conditioning 3 History Elective 3 |
| Total 32 Third year: ATRN-3550 Organization and Administration in Athletic Training 3 ATRN-3660 Therapeutic Modalities 3 ATRN-3770 Pharmacology 3 ATRN-3903 Clinical III 2 ATRN-3904 Clinical IV 2 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 EXSC-4600 Research in Exercise Science 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 MAHE-3030 Nutrition 3 Total 31 Fourth year: ATRN-4560 General Medical Issues 3 ATRN-4905 Clinical V 2 ATRN-4906 Clinical VI 2 ESSE-3100 Strength and Conditioning 3 History Elective 3 Humanities/Global Awareness Elective 3 |
| Total 32 Third year: ATRN-3550 Organization and Administration in Athletic Training 3 ATRN-3660 Therapeutic Modalities 3 ATRN-3770 Pharmacology 3 ATRN-3903 Clinical III 2 ATRN-3904 Clinical IV 2 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 EXSC-4600 Research in Exercise Science 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 MAHE-3030 Nutrition 3 Total 3 Fourth year: ATRN-4560 General Medical Issues 3 ATRN-4905 Clinical V 2 ATRN-4906 Clinical VI 2 ESSE-3100 Strength and Conditioning 3 History Elective 3 Humanities/Global Awareness Elective 3 LIT-2XXX Literature Elective 3 |
| Total 32 Third year: ATRN-3550 Organization and Administration in Athletic Training 3 ATRN-3660 Therapeutic Modalities 3 ATRN-3770 Pharmacology 3 ATRN-3903 Clinical III 2 ATRN-3904 Clinical IV 2 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 EXSC-4600 Research in Exercise Science 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 MAHE-3030 Nutrition 3 Total 31 Fourth year: ATRN-4560 General Medical Issues 3 ATRN-4905 Clinical V 2 ATRN-4906 Clinical VI 2 ESSE-3100 Strength and Conditioning 3 History Elective 3 Humanities/Global Awareness Elective 3 |



Department of Kinesiology and Allied Health Allied Health

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, physician assistant, and occupational therapy. The allied health major is not necessarily designed to prepare students for the medical profession. Students seeking admission to medical school should consider majoring in the premed program offered in the Department of Science and Mathematics. An ACT composite score of 25 (or SAT composite of 1150) or higher is highly recommended.

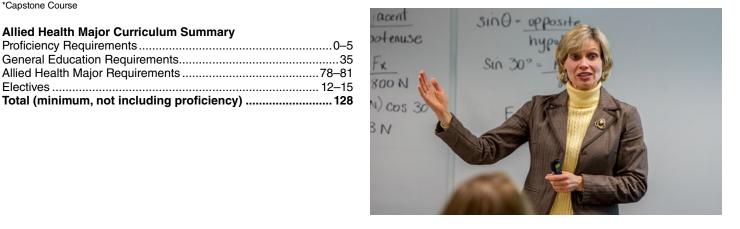
Course Requirements involve 78-81 semester hours:

| ALHL-1000 Introduction to the Allied Health Professions | .1 |
|--|----|
| ALHL-2000 Medical Terminology | .1 |
| ALHL-3940 Professional Development | .1 |
| ALHL-4950 Allied Health Seminar I | |
| *ALHL-4960 Allied Health Seminar II | .1 |
| BIO-1110 Introduction to Biology | .4 |
| BIO-2210 Microbiology | |
| BIO-2250 Cell Biology | .4 |
| CHEM-1110 General Chemistry I | .4 |
| ESS-3900 Physiology of Exercise | .3 |
| ESS-3920 Biomechanics | |
| ESS-3940 Structural Kinesiology | |
| EXSC-4600 Research in Exercise Science | |
| GBIO-2010 Human Anatomy and Physiology I | |
| GBIO-2015 Human Anatomy, and Physiology II | |
| GMTH-1030 Precalculus | |
| MAHE-3030 Nutrition | |
| MAHE-3070 Current Issues in Health | |
| PYCH-1600 General Psychology | .3 |
| PYCH-2600 Human Development and Lifespan | |
| PYCH-2610 Statistics | .3 |
| PYCH-2640 Abnormal Psychology | |
| PYCH-3380 Health Psychology | .3 |
| PYCH-3720 Psychology of Personality | |
| One of the following sets11- | 14 |
| Set A: Pre-Physical Therapy, Optometry, Chiropractic,etc | |
| CHEM-1120 General Chemistry II4 | |
| PHYS-1010 College Physics I5 | |
| PHYS-1020 College Physics II5 | |
| or Set B: Pre-Physician Assistant | |
| CHEM-1120 General Chemistry II4 | |
| CHEM-3510 Organic Chemistry I4 | |
| CHEM-3710 Biochemistry4 | |
| or Set C: Pre-Occupational Therapy | |
| PHYS-1010 College Physics I | |
| PYCH-3900 Physiological Psychology3 | |
| SOC-1300 Introduction to Sociology | |
| *Capstone Course | |
| | |
| Allied Health Major Curriculum Summary | |

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

Suggested Four-Year Curriculum for a Major in Allied Health

| First year: |
|--|
| ALHL-1000 Introduction to the Allied Health Professions |
| BTGE-1720 Spiritual Formation |
| BIO-1110 Introduction to Biology4 |
| BIO-2250 Cell Biology4 |
| ENG-1400 Composition3 |
| GBIO-2010 Human Anatomy and Physiology I4 |
| GMTH-1030 Precalculus4 |
| PEF-1990 Physical Activity and the Christian Life |
| PYCH-1600 General Psychology3 |
| GSS-1100 Politics and American Culture |
| LIT-2XXX Literature Elective |
| Total |
| 1044 |
| Second year: |
| ALHL-2000 Medical Terminology1 |
| BTGE-2730 Old Testament Literature3 |
| BIO-2210 Microbiology4 |
| COM-1100 Fundamentals of Speech |
| CHEM-1110 General Chemistry I4 |
| GBIO-2015 Human Anatomy and Physiology II4 |
| HUM-1400 Introduction to the Humanities |
| PYCH-2600 Human Development and Lifespan3 |
| PYCH-2640 Abnormal Psychology3 |
| |
| |
| History Elective3 |
| History Elective 3 Total 31 |
| History Elective |
| History Elective |
| History Elective |
| History Elective |
| History Elective 3 Total 31 Third year: ALHI-3940 Professional Development 1 BTGE-2740 New Testament Literature 3 ESS-3900 Physiology of Exercise 3 ESS-3920 Biomechanics 3 |
| History Elective 3 Total 31 Third year: ALHL-3940 Professional Development 1 BTGE-2740 New Testament Literature 3 ESS-3900 Physiology of Exercise 3 ESS-3920 Biomechanics 3 ESS-3940 Structural Kinesiology 3 |
| History Elective 3 Total 31 Third year: ALHL-3940 Professional Development 1 BTGE-2740 New Testament Literature 3 ESS-3900 Physiology of Exercise 3 ESS-3920 Biomechanics 3 ESS-3940 Structural Kinesiology 3 EXSC-4600 Research in Exercise Science 3 |
| History Elective 3 Total 31 Third year: ALHL-3940 Professional Development 1 BTGE-2740 New Testament Literature 3 ESS-3900 Physiology of Exercise 3 ESS-3920 Biomechanics 3 ESS-3940 Structural Kinesiology 3 EXSC-4600 Research in Exercise Science 3 MAHE-3030 Nutrition 3 |
| History Elective 3 Total 31 Third year: ALHL-3940 Professional Development 1 BTGE-2740 New Testament Literature 3 ESS-3900 Physiology of Exercise 3 ESS-3920 Biomechanics 3 ESS-3940 Structural Kinesiology 3 EXSC-4600 Research in Exercise Science 3 MAHE-3030 Nutrition 3 MAHE-3070 Current Issues in Health 1 |
| History Elective 3 Total 31 Third year: ALHL-3940 Professional Development 1 BTGE-2740 New Testament Literature 3 ESS-3900 Physiology of Exercise 3 ESS-3920 Biomechanics 3 ESS-3940 Structural Kinesiology 3 EXSC-4600 Research in Exercise Science 3 MAHE-3030 Nutrition 3 MAHE-3070 Current Issues in Health 1 PYCH-2610 Statistics 3 |
| History Elective 3 Total 31 Third year: ALHL-3940 Professional Development 1 BTGE-2740 New Testament Literature 3 ESS-3900 Physiology of Exercise 3 ESS-3920 Biomechanics 3 ESS-3940 Structural Kinesiology 3 EXSC-4600 Research in Exercise Science 3 MAHE-3030 Nutrition 3 MAHE-3070 Current Issues in Health 1 |
| History Elective 3 Total 31 Third year: ALHL-3940 Professional Development 1 BTGE-2740 New Testament Literature 3 ESS-3900 Physiology of Exercise 3 ESS-3920 Biomechanics 3 ESS-3940 Structural Kinesiology 3 EXSC-4600 Research in Exercise Science 3 MAHE-3030 Nutrition 3 MAHE-3070 Current Issues in Health 1 PYCH-2610 Statistics 3 |
| History Elective 3 Total 31 Third year: ALHL-3940 Professional Development 1 BTGE-2740 New Testament Literature 3 ESS-3900 Physiology of Exercise 3 ESS-3920 Biomechanics 3 ESS-3940 Structural Kinesiology 3 EXSC-4600 Research in Exercise Science 3 MAHE-3030 Nutrition 3 MAHE-3070 Current Issues in Health 1 PYCH-2610 Statistics 3 PYCH-3380 Health Psychology 3 |
| History Elective 3 Total 31 Third year: ALHL-3940 Professional Development 1 BTGE-2740 New Testament Literature 3 ESS-3900 Physiology of Exercise 3 ESS-3920 Biomechanics 3 ESS-3940 Structural Kinesiology 3 EXSC-4600 Research in Exercise Science 3 MAHE-3030 Nutrition 3 MAHE-3070 Current Issues in Health 1 PYCH-2610 Statistics 3 PYCH-3380 Health Psychology 3 Electives 3 Total 29 |
| History Elective 3 Total 31 Third year: ALHL-3940 Professional Development 1 BTGE-2740 New Testament Literature 3 ESS-3900 Physiology of Exercise 3 ESS-3920 Biomechanics 3 ESS-3940 Structural Kinesiology 3 EXSC-4600 Research in Exercise Science 3 MAHE-3030 Nutrition 3 MAHE-3070 Current Issues in Health 1 PYCH-2610 Statistics 3 PYCH-3380 Health Psychology 3 Electives 3 Total 29 Fourth year: |
| History Elective 3 Total 31 Third year: ALHL-3940 Professional Development 1 BTGE-2740 New Testament Literature 3 ESS-3900 Physiology of Exercise 3 ESS-3920 Biomechanics 3 ESS-3940 Structural Kinesiology 3 EXSC-4600 Research in Exercise Science 3 MAHE-3030 Nutrition 3 MAHE-3070 Current Issues in Health 1 PYCH-2610 Statistics 3 PYCH-3380 Health Psychology 3 Electives 3 Total 29 Fourth year: ALHL-4950 Allied Health Seminar I 1 |
| History Elective 3 Total 31 Third year: ALHL-3940 Professional Development 1 BTGE-2740 New Testament Literature 3 ESS-3900 Physiology of Exercise 3 ESS-3920 Biomechanics 3 ESS-3940 Structural Kinesiology 3 EXSC-4600 Research in Exercise Science 3 MAHE-3030 Nutrition 3 MAHE-3070 Current Issues in Health 1 PYCH-2610 Statistics 3 PYCH-3380 Health Psychology 3 Electives 3 Total 29 Fourth year: ALHL-4950 Allied Health Seminar I 1 ALHL-4960 Allied Health Seminar II 1 |
| History Elective 3 Total 31 Third year: ALHL-3940 Professional Development 1 BTGE-2740 New Testament Literature 3 ESS-3900 Physiology of Exercise 3 ESS-3920 Biomechanics 3 ESS-3940 Structural Kinesiology 3 EXSC-4600 Research in Exercise Science 3 MAHE-3030 Nutrition 3 MAHE-3070 Current Issues in Health 1 PYCH-2610 Statistics 3 PYCH-3380 Health Psychology 3 Electives 3 Total 29 Fourth year: ALHL-4950 Allied Health Seminar I 1 ALHL-4960 Allied Health Seminar II 1 BTGE-3755 Theology I 3 |
| History Elective 3 Total 31 Third year: ALHL-3940 Professional Development 1 BTGE-2740 New Testament Literature 3 ESS-3900 Physiology of Exercise 3 ESS-3920 Biomechanics 3 ESS-3940 Structural Kinesiology 3 EXSC-4600 Research in Exercise Science 3 MAHE-3030 Nutrition 3 MAHE-3070 Current Issues in Health 1 PYCH-2610 Statistics 3 PYCH-3380 Health Psychology 3 Electives 3 Total 29 Fourth year: ALHL-4950 Allied Health Seminar I 1 ALHL-4960 Allied Health Seminar II 1 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 |
| History Elective 3 Total 31 Third year: ALHL-3940 Professional Development 1 BTGE-2740 New Testament Literature 3 ESS-3900 Physiology of Exercise 3 ESS-3920 Biomechanics 3 ESS-3940 Structural Kinesiology 3 EXSC-4600 Research in Exercise Science 3 MAHE-3030 Nutrition 3 MAHE-3070 Current Issues in Health 1 PYCH-2610 Statistics 3 PYCH-3380 Health Psychology 3 Electives 3 Total 29 Fourth year: ALHL-4950 Allied Health Seminar I 1 ALHL-4960 Allied Health Seminar II 1 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 PYCH-3720 Psychology of Personality 3 |
| History Elective 3 Total 31 Third year: ALHL-3940 Professional Development 1 BTGE-2740 New Testament Literature 3 ESS-3900 Physiology of Exercise 3 ESS-3920 Biomechanics 3 ESS-3940 Structural Kinesiology 3 EXSC-4600 Research in Exercise Science 3 MAHE-3030 Nutrition 3 MAHE-3070 Current Issues in Health 1 PYCH-2610 Statistics 3 PYCH-3380 Health Psychology 3 Electives 3 Total 29 Fourth year: ALHL-4950 Allied Health Seminar I 1 ALHL-4960 Allied Health Seminar II 1 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BTGE-3765 Theology II 3 BTGH-3720 Psychology of Personality 3 Global Awareness Elective 0-3 |
| History Elective 3 Total 31 Third year: ALHL-3940 Professional Development 1 BTGE-2740 New Testament Literature 3 ESS-3900 Physiology of Exercise 3 ESS-3920 Biomechanics 3 ESS-3940 Structural Kinesiology 3 EXSC-4600 Research in Exercise Science 3 MAHE-3030 Nutrition 3 MAHE-3070 Current Issues in Health 1 PYCH-2610 Statistics 3 PYCH-3380 Health Psychology 3 Electives 3 Total 29 Fourth year: ALHL-4950 Allied Health Seminar I 1 ALHL-4960 Allied Health Seminar II 1 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 PYCH-3720 Psychology of Personality 3 |



Department of Kinesiology and Allied Health Exercise Science — Bachelor of Science

Exercise Science — Bachelor of Science

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

| Course requirements involve 69-72 semester nours including: | |
|---|-----|
| ¹ CHEM-1000 Principles of Chemistry | 5 |
| ESS-1350 Foundations of Exercise and Sport Science | 2 |
| ESS-1400 First Aid and Safety Education | |
| ESS-2380 Motor Learning and Development | |
| ESS-3800 Sport Psychology | |
| ESS-3900 Physiology of Exercise | |
| ESS-3920 Biomechanics | |
| ESS-3940 Structural Kinesiology | 3 |
| EXSC-2000 Worksite Observation | |
| EXSC-3010 Campus Exercise Science Practicum | 1 |
| EXSC-3020 Community Exercise Science Practicum | |
| EXSC-3810 Organization and Administration of | |
| Exercise Science | 3 |
| EXSC-3860 Basic Exercise Testing | 4 |
| EXSC-3870 Basic Exercise Prescription | 4 |
| EXSC-4600 Research in Exercise Science | 3 |
| EXSC-4700 Senior Research | 3 |
| EXSC-4880 Exercise Testing and Prescription for | |
| Special Populations | 3 |
| *EXSC-4990 Internship in Exercise Science9- | -12 |
| ² GBIO-2010 Human Anatomy and Physiology I | 4 |
| ³ GBIO-2015 Human Anatomy and Physiology II | 4 |
| MAHE-3030 Nutrition | |
| MAHE-3100 Drug Education | 3 |
| Satisfies physical science general education requirements | |
| ² Satisfies biological science general education requirements | |
| ³ Counts toward the 16 semester hours of science and mathematics courses requi | red |
| for Bachelor of Science degree | |
| *Capstone Course | |

Exercise Science Major Curriculum Summary

| Proficiency Requirements | 0–5 |
|--|-------|
| General Education Requirements | |
| Exercise Science B.S. Major Requirements | 69–72 |
| Electives | |
| Total (minimum, not including proficiency) | 128 |
| | |

| Students preparing for physical therapy school should select | |
|--|----|
| the following course options, substitutions, and additions to th | e |
| Bachelor of Science in exercise science curriculum. | |
| BIO-2250 Cell Biology | 4 |
| GMTH-1030 Precalculus | 4 |
| CHEM-1110 General Chemistry I | 4 |
| and CHEM-1120 General Chemistry II | 4 |
| (instead of CHEM-1000 Principles of Chemistry | 5) |
| BIO-1110 Introduction to Biology | 4 |
| (instead of GBIO-1000 Principles of Biology | |
| 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 | 3 |
| PYCH-2640 Abnormal Psychology | 3 |
| . 0. | |

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: | |
|--|---|
| BTGE-1720 Spiritual Formation3 | 3 |
| COM-1100 Fundamentals of Speech3 | 3 |
| ENG-1400 Composition3 | 3 |
| ESS-1350 Foundations of Exercise and Sport Science | |
| ESS-1400 First Aid and Safety Education | |
| GBIO-2010 Human Anatomy and Physiology I4 | |
| GSS-1100 Politics and American Culture | , |
| PEF-1990 Physical Activity and the Christian Life | , |
| | |
| History Elective | |
| Humanities Elective | |
| Quantitative Requirement3 | |
| Total | ı |
| 0 | |
| Summer: | |
| EXSC-2000 Worksite Observation |) |
| Second year: | |
| BTGE-2730 Old Testament Literature | |
| | |
| BTGE-2740 New Testament Literature | |
| ESS-2380 Motor Learning and Development3 | |
| ESS-3800 Sport Psychology3 | |
| ESS-3900 Physiology of Exercise | |
| ESS-3920 Biomechanics3 | |
| GBIO-2015 Human Anatomy and Physiology II4 | ŀ |
| HUM-1400 Introduction to the Humanities3 | 3 |
| LIT-2XXX Literature Elective | 2 |
| Social Science/Global Awareness Elective | 2 |
| Total | |
| 10tal | ١ |
| Third year: | |
| BTGÉ-3755 Theology I3 | 3 |
| BTGE-3765 Theology II | |
| CHEM-1000 Principles of Chemistry | |
| ESS-3940 Structural Kinesiology | |
| | |
| EXSC-3010 Campus Exercise Science Practicum | |
| EXSC-3860 Basic Exercise Testing | |
| EXSC-3870 Basic Exercise Prescription | |
| EXSC-4600 Research in Exercise Science | |
| MAHE-3030 Nutrition3 | |
| MAHE-3100 Drug Education3 | 3 |
| Total | 2 |
| | |
| Fourth year: | |
| EXSC-3020 Community Exercise Science Practicum1 | |
| EXSC-3810 Organization and Administration of Exercise Science3 | |
| EXSC-4700 Senior Research3 | 3 |
| EXSC-4880 Exercise Testing and Prescription for Special Populations3 | 3 |
| EXSC-4990 Internship in Exercise Science9–12 | , |
| Electives | |
| Total 3/ | 1 |



Department of Kinesiology and Allied Health Teacher Education Licensure Program -

Teacher Education Licensure Program — Physical Education — Multi-Age

Course requirements involve 83 semester hours including:

The multi-age physical education major prepares students to teach physical education in grades pre-K to 12 in public and Christian schools. Students who complete this curriculum will be licensed by the state of Ohio and the Association of Christian Schools International. The Ohio teaching license, through reciprocal agreements, is automatically recognized in 42 states. For additional information about teaching in other states, see the School of Education section (page 83).

| Physical Education | .39 |
|--|----------|
| ESS-1350 Foundations of Exercise and Sport Science 2 | 2 |
| ESS-1400 First Aid and Safety Education | 2 |
| ESS-2380 Motor Learning and Development 3 | 3 |
| ESS-3890 Human Anatomy and Physiology for the | |
| Physical Educator5 | ; |
| ESS-3900 Physiology of Exercise | 3 |
| ESS-3920 Biomechanics3 | |
| GMTH-1020 College Algebra3 | |
| MAHE-3130 School Health Program3 | |
| MAPE-1210 Team Sports | 2 |
| MAPE-2200 Individual and Dual Sports I2 | |
| MAPE-2210 Individual and Dual Sports II2 | <u> </u> |
| MAPE-4500 Curriculum Development in Physical Education 2 | <u>)</u> |
| PEAL-XXXX Outdoor Leisure Elective1 | |
| PEAR-2100 Rhythmics1 | |
| PEAS-1120 Tumbling 1 | |
| Kinesiology and Allied Health Electives4 | ļ |
| Professional Education | .44 |
| EDSP-2100 Exceptionalities and Behavior2 | |
| EDUC-1000 The Education Profession2 | |
| EDUC-1050 Preliminary Student Involvement |) |
| EDUC-2050 Teaching Diverse Learners2 | <u>)</u> |
| EDUC-2100 e-Learning for Educators | 3 |
| EDUC-2500 Educational Psychology | |
| EDUC-3100 Philosophical Foundations of Education | |
| EDUC-4000 Reading in the Content Area: Multi-Age | |
| *EDUC-4900 Student Teaching and Seminar: Multi-Age 12 | |
| MAPE-3600 Physical Education in the Elementary School 5 |) |
| MAPE-4950 Methods of Teaching Secondary Physical | |
| Education |) ! |
| MAPE-4960 Field Experience | |
| , | - |
| *Capstone Course | |
| Physical Education Multi-Age Major Curriculum Summary | |
| Proficiency Requirements(|)_5 |
| General Education Requirements45- | |
| Physical Education Multi-Age Major Requirements | |

Total (minimum, not including proficiency)128

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

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

| First year: |
|---|
| BTGE-1720 Spiritual Formation |
| COM-1100 Fundamentals of Speech3 |
| EDUC-1000 The Education Profession |
| EDUC-1050 Preliminary Student Involvement0 |
| ENG-1400 Composition3 |
| ESS-1350 Foundations of Exercise and Sport Science2 |
| ESS-1400 First Aid and Safety Education2 |
| GBIO-1000 Principles of Biology |
| GMTH-1020 College Algebra3 |
| HUM-1400 Introduction to the Humanities |
| MAPE-1210 Team Sports2 |
| PEAS-1120 Tumbling |
| PEF-1990 Physical Activity and the Christian Life2 |
| Total |
| |
| Second year: |
| BTGE-2730 Old Testament Literature3 |
| BTGE-2740 New Testament Literature3 |
| EDSP-2100 Exceptionalities and Behavior2 |
| EDUC-2050 Teaching Diverse Learners2 |
| EDUC-2100 e-Learning for Educators3 |
| EDUC-2500 Educational Psychology3 |
| ESS-2380 Motor Learning and Development3 |
| MAPE-2200 Individual and Dual Sports I2 |
| MAPE-2210 Individual and Dual Sports II2 |
| PEAR-2100 Rhythmics1 |
| Physical Science Elective |
| LIT-2XXX Literature Elective |
| Social Science/ Global Awareness Elective3 |
| Total |
| Third was w |
| Third year: |
| BTGE-3755 Theology I |
| ESS-3890 Human Anatomy and Physiology for the |
| Physical Educator |
| ESS-3900 Physiology of Exercise |
| ESS-3920 Biomechanics |
| |
| MAHE-3130 School Health Program |
| MAPE-3600 Physical Education in Elementary School |
| PEAL-XXXX Outdoor Leisure Activity |
| Kinesiology and Allied Health Elective |
| History Elective |
| Total |
| Summer: |
| EDUC-4000 Reading in the Content Area: Multi-Age3 |
| · |
| Fourth year: |
| BTGE-3765 Theology II |
| EDUC-3100 Philosophical Foundations of Education3 |
| EDUC-4900 Student Teaching and Seminar: Multi-Age12 |
| MAPE-4500 Curriculum Development in Physical Education2 |
| MAPE-4950 Methods of Teaching Secondary Physical Education3 |
| MAPE-4960 Field Experience4 |
| MAPE-4970 Field Experience (Special Populations)2 |
| Total |

Department of Kinesiology and Allied Health Multi-Age Health and Physical Education

Multi-Age Health and Physical Education

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

| Course requirements involve 87 semester hours including: Physical Education38 |
|--|
| ESS-1350 Foundations of Exercise and Sport Science 2 |
| ESS-1400 First Aid and Safety Education |
| ESS-2380 Motor Learning and Development |
| ESS-3890 Human Anatomy and Physiology for the |
| Physical Educator |
| ESS-3900 Physiology of Exercise |
| ESS-3920 Biomechanics |
| MAHE-3030 Nutrition |
| MAHE-3100 Drug Education3 |
| MAHE-3130 School Health Program3 |
| MAPE-1210 Team Sports |
| MAPE-2200 Individual and Dual Sports I |
| MAPE-2210 Individual and Dual Sports II2 |
| MAPE-4500 Curriculum Development in Physical Education 2 |
| PEAL-XXXX Outdoor Leisure Elective1 |
| PEAR-2100 Rhythmics 1 |
| PEAS-1120 Tumbling 1 |
| Professional Education49 |
| EDSP-2100 Exceptionalities and Behavior2 |
| EDUC-1000 The Education Profession2 |
| EDUC-1050 Preliminary Student Involvement 0 |
| EDUC-2050 Teaching Diverse Learners2 |
| EDUC-2100 e-Learning for Educators3 |
| EDUC-2500 Educational Psychology3 |
| EDUC-3100 Philosophical Foundations of Education 3 |
| EDUC-4000 Reading in the Content Area: Multi-Age3 |
| *EDUC-4900 Student Teaching and Seminar: Multi-Age 12 |
| MAHE-4610 Teaching Health5 |
| MAPE-3600 Physical Education in the Elementary School 5 |
| MAPE-4950 Methods of Teaching Secondary Physical |
| Education3 |
| MAPE-4960 Field Experience |
| MAPE-4970 Field Experience (Special Populations)2 |
| *Capstone Course |
| Multi-Age Health and Physical Education Major Curriculum |
| Summary |
| Proficiency Requirements0-5 |

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

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

| First year: BTGE-1720 Spiritual Formation |
|---|
| MAPE-1210 Team Sports |
| Second year: BTGE-2730 Old Testament Literature |
| Total 34.5 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 EDUC-2500 Educational Psychology 3 EDUC-3100 Philosophical Foundations of Education 3 ESS-3890 Human Anatomy and Physiology for the Physical Educator 5 ESS-3900 Physiology of Exercise 3 ESS-3920 Biomechanics 3 MAHE-3130 School Health Program 3 MAHE-3100 Drug Education 3 MAPE-3600 Physical Education in Elementary School 5 PEAL-XXXX Outdoor Leisure Activity 1 Social Science/ Global Awareness Elective 3 |
| Total |
| Fourth year: EDUC-4900 Student Teaching and Seminar: Multi-Age |

Department of Kinesiology and Allied Health Minors

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 17 semester hours including:

| CCHG-3670 Fundamentals of Coaching | 3 |
|--|---|
| CCHG-3680 Scientific Basis of Coaching | 2 |
| One course selected from the following | |
| CCHG-3700 Coaching Volleyball2 | |
| CCHG-3720 Coaching Basketball2 | |
| CCHG-3730 Coaching Track and Field and Cross Country 2 | |
| CCHG-3740 Coaching Softball and Baseball | 2 |
| CCHG-3760 Coaching Soccer2 | 2 |
| CCHG-4950 Internship in Coaching | 3 |
| ESS-1400 First Aid and Safety Education | |
| ESS-1550 Athletic Training Essentials | |
| ESS-3800 Sport Psychology | |
| | |

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 management, world missions, and youth ministries.

Course requirements for a minor in sport ministry involve 20–22 semester hours including:

| semester nours including: | |
|---|-----|
| BTAT-2400 Personal Evangelism | 3 |
| BTAT-3410 Discipleship | 3 |
| CCHG-3670 Fundamentals of Coaching | |
| 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 |
| BTPA-2260 World Religions | 3 |
| ESSE-2100 Wilderness Ministry | 3 |
| ESSE-2810 Introduction to Camping | 2 |
| MAPE-1210 Team Sports | |
| | |







Department of Music and Worship

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Department of Music and Worship Purpose Statement

Purpose Statement

The Cedarville University Department of Music and Worship provides a high-quality Christ-centered undergraduate education in music and worship, building a strong artistic, intellectual, and practical foundation for professional careers and graduate studies. The department serves the University, church, and global community through outreach, performance, and educational activities. The faculty of teaching-artists is dedicated to the education of the whole person and committed to helping students realize their highest level of musicianship and development as human beings created in the image of God.

Music Student Objectives

Upon completion of the music curricula and courses, music majors will:

- Develop and demonstrate technical skills required for artistic self-expression in at least one major performance area.
- Demonstrate artistic mastery of assigned repertoire appropriate to their performance field, and perform from a diverse cross-section of that repertoire.
- Identify and describe a broad range of music literature in terms of cultural sources, principle stylistic eras, and typical genres.
- Sight-read, with fluency, while demonstrating general musicianship and relevant, professional skills in their major performance area.
- · Acquire and demonstrate proficient keyboard skills.
- Develop and use appropriate conducting and rehearsal skills, as required.
- Visually and aurally identify the basic elements of music (rhythm, melody, harmony, and form) and use this knowledge in aural, verbal, and written analyses.
- Demonstrate the ability to take aural dictation of rhythms, melodies, and harmonic progressions.
- Formulate aesthetic judgments, orally and in writing, with regard to musical analysis, processes and structures, composition, performance, scholarship, and pedagogy.
- Develop the rudimentary ability to improvise original music or to create a derivation or variation of an established work both extemporaneously and in writing.
- Recognize and identify, visually and aurally, representative compositions from each era of musical history, styles of particular composers within each era, and apply correct historical information to appropriate teaching situations.
- Demonstrate a working knowledge of technological developments applicable to musicians.
- Develop creative approaches to musical problem-solving through multiple modalities of thinking.
- Create and articulate a Christ-centered philosophy of music.
- Serve and enrich the University, church, and global community.

Accreditation

Cedarville University is an accredited institutional member of the National Association of Schools of Music.

Requirements for Music Admission 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 visit the website at

cedarville.edu/musicworship to obtain audition 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 Cedarville University Financial Aid.

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 and Worship for additional information regarding this test.

Department Requirements

To graduate with a major from the Department of Music and Worship, students must earn at least a 2.0 cumulative average in all courses required for their major and a "C-" or higher in all courses taken to meet specific requirements in their major.

Music Requirements

Music Student Handbook

The Music Student Handbook is the authoritative statement on all department policy as it applies to the student. Each music student is responsible for following the policies and procedures contained in both the handbook and the University catalog. The handbook can be found online at

cedarville.edu/musicstudentresources

Department of Music and Worship Music Requirements

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. Private lessons are also open to nonmajors. Inquiries about nonmajor lessons should be directed to the Administrative Assistant in the Department of Music and Worship.

Semester Performance Juries

All music majors perform a jury in their primary performing area every semester. The jury is a short performance for a committee of music faculty. The grade from the jury counts for 25 percent of the final grade in private lessons for the semester. For performance majors, the jury counts for 33 percent of the final grade in private lessons.

Freshman Review

After the second semester of study, freshmen are evaluated by a committee of music faculty to determine whether they are making adequate progress to continue in the music program. Students who do not show satisfactory progress may be asked to change majors.

Sophomore 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 required to participate in at least one large ensemble every semester they are enrolled. Once the credit requirements for their major is fulfilled, they may enroll for 0 credit.

Large ensembles include Symphonic Band, Orchestra, Jazz Band, Concert Chorale, Jubilate, Men's Glee Club, and Women's Choir.

Recital and Program Attendance

Attendance is required of all music majors and minors. All students must complete recital and program attendance each semester they are enrolled as a music major. Minors must take two semesters.

Capstone Recital or Project

In addition to performance in general student recitals throughout the college experience, all music majors are required to exhibit a level of performance for graduation that meets the requirements and standards of the department. For all majors, the capstone requirement is a senior recital or project.

Fees

Instrumental rental fee per semester is \$50. Practice room fee per semester is \$100 (each hour of lesson credit). Private lesson fee is \$300 per semester. Classes that involve labs or University-provided student equipment may also have similar fees.

Worship Degree Objectives

The mission of the worship program is "Equipping Worshipers to Serve". Core values of the B.A. in worship degree include: Musical Emphasis

We value a core musical background for all worship students. We value contemporary music as the voice of our culture and will equip students to be musically and methodologically relevant in the "real world."

Theological Foundation

We value a strong theological foundation, grounded in biblical truth for all worship students. The Bible minor and required classes will emphasize a biblical foundation for worship ministry. *Interdisciplinary Nature*

We value interdisciplinary study in fields related to worship ministry. We value each student developing God-given talents and interests, resulting in an individualized degree tailored for each student.

Upon completion of the B.A. curriculum in worship, students will be able to:

- Recognize and recall music theory principles and contemporary music practices.
- Analyze musical compositions by applying sound music theory principles.
- Perform proficiently in voice and either piano or guitar in a worship setting.
- Formulate and articulate a theology of worship based on sound biblical principles and valid biblical interpretation.
- Evaluate and critique the content and appropriateness of any worship medium (music, drama, media, etc.) by employing one's theology of worship as a foundation for evaluation.
- Plan, implement, and lead effective rehearsals and worship team building exercises for church or parachurch organizations.
- Plan, produce, and lead theologically sound and edifying corporate worship experiences for the local church or parachurch organization.
- Value and support the role that worship plays in the larger overall ministry and discipleship practice of the local church or parachurch organization.



Department of Music and Worship Worship Requirements

Worship Requirements

Admission

Program application is required for all prospective worship students before admission into the worship program. The purpose of the audition is to evaluate your potential success as a worship student and whether you will be admitted to the department to pursue a worship degree. Guidelines for the audition can be found at **cedarville.edu/worship.**

Private Lessons

All worship students are required to take private lessons. Students should study the instrument for which they are most proficient in order to improve their skills. Earnest practice is expected and mandatory for your success. Juries are required for each student taking private lessons.

Ensembles

All worship students are required to participate in an ensemble every semester that they are on campus.

Worship Forum

All worship students are required to participate in Worship Forum every semester that they are on campus. The Forum is designed to help address topics not easily addressed in class, to build community between worship students, and to allow students to work on projects and services together. The class is for zero credit and requirements will be given to you each semester.

First-Year Review

All entering students are admitted into the worship program on a conditional basis. At the end of the first year, students will be asked to complete and submit information that will be combined with their first year grades, recommendations, and private lesson reviews to determine the potential success of each student in upper-level course work, field experience, internships, and as future worship leaders. The worship faculty members will meet during the week following graduation to evaluate each student's information and make final recommendations regarding the future of the student's ability to continue in the worship program.

Second-Year Review

The members of the worship faculty will evaluate students' progress since the first-year review to see that the students are adequately moving toward completion of their degree programs.

Worship Student Handbook

The Worship Student Handbook is the authoritative statement on all departmental policy as it applies to the student. Each worship student is responsible for following the policies and procedures contained in both the handbook and the University catalog. The handbook can be found online at cedarville.edu/worship.

Programs of Study

The Department of Music and Worship offers the following programs of study:

Bachelor of Arts (B.A.) in:

- Music
- Worship

Bachelor of Music (B.M.) in:

- Composition
- · Keyboard Pedagogy
- Performance

Bachelor of Music Education (B.M.E.) in:

- Choral
- Instrumental

Minors

- Music
- Music Technology
- Worship

Technical Resources

The Department of Music and Worship relies heavily on the use of technology to accomplish its educational objectives. Music students will spend time in a state-of-the-art music computer/synthesizer lab that allows them to practice ear training, produce printed musical scores, and complete fully orchestrated compositions.

Cocurricular Opportunities

All students are invited to audition for the numerous choral and instrumental ensembles that perform in many different venues throughout the academic year. Students may also participate in one of a growing number of small chamber music groups. Music education majors are required to participate in the collegiate chapter of the National Association for Music Education (NAfME). This award-winning chapter offers many professional and service opportunities to its members.



Department of Music and Worship Career Opportunities

Career Opportunities

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

- College professor
- Community arts manager
- Composer/arranger
- Instrument salesperson
- Minister of music
- Music editor
- Music librarian
- Music supervisor
- Music therapist

- Performer
- Recording studio technician
- Retail music salesperson
- School teacher (elementary and secondary Christian or public schools)
- Studio teacher
- Worship leader

Faculty

Beth Cram Porter. Chair: Associate Professor of Vocal Music. Education: B.M., Baylor University, 1984; M.A., Western Carolina University, 1996; voice student of Joyce Farwell. At Cedarville since 1997.

Roger O'Neel, Assistant Chair; Associate Professor of Worship. Education: B.M., Ouachita Baptist University, 1985; M.M., Choral Conducting, Southern Methodist University, 1987; M.M., Music Theory, Southern Methodist University, 1988; Ph.D., University of Texas at Austin, 1996. At Cedarville since 2002.

Connie Anderson, Assistant Professor of Piano Pedagogy. Education: B.A., Cedarville University, 1973; M.M., Wright State University, 1994. At Cedarville since 1999.

Lyle Anderson, Senior Professor of Music. Education: B.M.E., Cedarville University, 1970; M.A., The Ohio State University, 1971; Ph.D., The Ohio State University, 1977. At Cedarville since 1970. Charles Clevenger, Senior 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.

Carlos Elias, Professor of Music. Education: Artist Diploma, Duquesne University, Pittsburgh, 1999; B.M., Biola University, 1990; M.M., College-Conservatory of Music University of Cincinnati 1993. At Cedarville since 2013.

Austin Jaquith. Associate 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.

John Mortensen, Professor of Music. Education: B.M.A., University of Michigan, 1988; piano student of Anne Koscielny and Raymond Hanson; M.M., University of Maryland, 1990; D.M.A., University of Maryland, 1994. At Cedarville since 1995. Charles Pagnard, Senior 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.

Susan Plemons, Assistant Professor of Worship. Education; B.M., Baylor University, 1984; M.M., University of South Florida, 1996. At Cedarville since 2013.

Mark Spencer, Associate Professor of Music. Education: B.A., Judson College, 1981; M.M., Southwestern Baptist Theological Seminary, 1984; D.M.A., Southwestern Baptist Theological Seminary, 1992; voice student of Jack Coldiron. At Cedarville since 1993.

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.

Sandra Yang, Associate Professor of Music History, Education: B.A., University of California, Los Angeles, 1971; M.A., U.C.L.A., 1992; Ph.D., U.C.L.A., 1997. At Cedarville since 2009.

Emeriti

Michael DiCuirci, Senior Professor Emeritus of Music. Education: B.M., University of Michigan, 1971; euphonium/ trombone student of Fred Snyder, Abe Torchinsky, and Glenn Smith; M.M., University of Michigan, 1977. At Cedarville since 1979.

David Matson, Professor Emeritus of Music History. Education: B.A., Cedarville University, 1960; graduate study, State College of Iowa, 1962-63; M.A., The Ohio State University, 1968; Ph.D., The Ohio State University, 1978. At Cedarville since 1965.

Adjunct Faculty

- Lori Akins, flute
- Judy Bede, directed teaching
- Jim Cato, worship
- Sheridan Currie, viola
- Jackie Davis, harp
- Lisa Grove, oboe
- Amy Hutchison, piano
- Chet Jenkins, saxophone
- Andrew Millat, trombone Anton Neumayr, string bass
- Gerald Noble, percussio
- Andrea Padgett, horn
- Andra Padrichelli, cello
- Lawrence Pitzer, guitar
- Tyler Shepard, guitar
- Crystal Stabenow, voice
- Ed Supplee, pep band
- Cameron Voorhess, guitar Brandon Waltz, worship



Composition **Statement of Purpose**

The composition major prepares the student for a career that involves film and concert composition, arranging, music production, and music entrepreneurship. Students are prepared with a solid foundation of musicianship that encompasses theory and aural skills, conducting, and instrumental or vocal performance. This foundation is then built upon through intensive studies in composition and technology that prepares students to be composers of the 21st century.

Department of Music and Worship Composition

Program Objectives

Upon completion of the B.M. degree in composition, students will be able to:

- Recognize and recall music theory principles and contemporary art music practices.
- Analyze musical compositions by applying sound music theory principles.
- Perform proficiently in his or her primary instrument.
- Compose in a variety of contemporary art music styles, and begin to develop their own compositional style.
- Recall and demonstrate an understanding of composing for various performing forces (i.e., different types of instrumental or vocal solos or ensembles).
- Write and produce a senior composition recital.
- Create a portfolio of original music and recordings.

Students pursuing this major must complete the general education core.

The following requirements involve 74–76 semester hours: Proficiencies0-7 Piano......0-4 CLMU-1810 Piano Class I......0-2 CLMU-1820 Piano Class II......0-2 THMU-1010 Introduction to Music Theory and Aural Skills ... 0-2 THMU-1500 Introduction to Music Technology0-1 Music Foundation and Skills.....27-28 GMUS-1000 Music Philosophy and Aesthetics...... 1 GMUS-1030 Recital and Program Attendance......0 (or HLMU-3400 Global Music3) THMU-1210, 1220, 2210, 2220 Music Theory I, II, III, and IV. 12 THMU-1310, 1320, 2310, 2320 Aural Skills I, II, III, and IV...... 8 Select one of the following2 CDMU-3610 Choral Conducting2 CDMU-3620 Instrumental Conducting2 Music Contexts9 HLMU-2310 Introduction to Music Literature 3 Music Performance......10 PLMU-3920 Junior Composition Project...... 1 *PLMU-4900 Senior Recital...... 1 Music Composition28–29 CLMU-2850 Composition Seminar......0 THMU-4100 Counterpoint......3 THMU-4130 Orchestration......2 (or TYMU-2251 Music Technology III......3) *Capstone Course **Composition Major Curriculum Summary** General Education Proficiency Requirements0-5 General Education Requirements.......48–56 Composition Major Requirements 74-81 Electives0–6 Total (minimum, not including proficiency)128 A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Composition

| First year: |
|---|
| BTGE-1720 Spiritual Formation |
| CLMU-2850 Composition Seminar (both semesters)0 |
| COM-1100 Fundamentals of Speech |
| ENG-1400 Composition |
| GMUS-1030 Recital and Program Attendance (both semesters)0 |
| PFMU-XXXX Large Ensemble Performance0 |
| PLMU-1800 Private Lesson in Composition |
| PLMU-XXXX Private Lessons2 |
| THMU-1210, 1220 Music Theory I and II6 |
| THMU-1310, 1320 Aural Skills I and II4 |
| TYMU-1251 Music Technology I |
| LIT-2XXX Literature Elective |
| Quantitative Elective |
| Total |
| Second year: |
| BTGE-2730 Old Testament Literature3 |
| BTGE-2740 New Testament Literature3 |
| CDMU-2600 Introduction to Conducting2 |
| CLMU-2850 Composition Seminar (both semesters) |
| GMUS-1030 Recital and Program Attendance (both semesters)0 |
| HLMU-2100 Jazz History: Music of the Multi-Culture |
| HLMU-2310 Introduction to Music Literature |
| PEF-1990 Physical Activity and the Christian Life |
| PFMU-XXXX Large Ensemble Performance |
| PLMU-2800 Music Composition |
| PLMU-XXXX Private Lessons |
| THMU-2210, 2220 Music Theory III and IV6 |
| THMU-2310, 2320 Aural Skills III and IV4 |
| Total |
| Third year: |
| BTGE-3755 Theology I3 |
| BTGE-3765 Theology II |
| CDMU-3620 Instrumental Conducting |
| (or CDMU-3610 Choral Conducting2) |
| CLMU-2850 Composition Seminar (both semesters)0 |
| GMUS-1030 Recital and Program Attendance (both semesters)0 |
| GSS-1100 Politics and American Culture3 |
| HLMU-3310, 3320 Music History I and II6 |
| PFMU-XXXX Large Ensemble Performance0 |
| DI MILL 2000 Music Composition |
| PLMU-3800 Music Composition |
| PLMU-3920 Junior Composition Project1 |
| PLMU-3920 Junior Composition Project |
| PLMU-3920 Junior Composition Project 1 TYMU-2250 Music Technology II 3 (or TYMU-2251 Music Technology III 3) (or THMU-4140 Choral Arranging 2) TYMU-3250 Music Technology IV 3 Biology Elective 3.5 History Elective 3 |
| PLMU-3920 Junior Composition Project |
| PLMU-3920 Junior Composition Project 1 TYMU-2250 Music Technology II 3 (or TYMU-2251 Music Technology III 3) (or THMU-4140 Choral Arranging 2) TYMU-3250 Music Technology IV 3 Biology Elective 3.5 History Elective 3 Total 34.5 |
| PLMU-3920 Junior Composition Project 1 TYMU-2250 Music Technology II 3 (or TYMU-2251 Music Technology III 3) (or THMU-4140 Choral Arranging 2) TYMU-3250 Music Technology IV 3 Biology Elective 3.5 History Elective 3 Total 34.5 Fourth year: |
| PLMU-3920 Junior Composition Project 1 TYMU-2250 Music Technology II 3 (or TYMU-2251 Music Technology III 3) (or THMU-4140 Choral Arranging 2) TYMU-3250 Music Technology IV 3 Biology Elective 3.5 History Elective 3 Total 34.5 Fourth year: CLMU-2850 Composition Seminar (both semesters) 0 |
| PLMU-3920 Junior Composition Project 1 TYMU-2250 Music Technology II 3 (or TYMU-2251 Music Technology III 3) (or THMU-4140 Choral Arranging 2) TYMU-3250 Music Technology IV 3 Biology Elective 3.5 History Elective 3 Total 34.5 Fourth year: CLMU-2850 Composition Seminar (both semesters) 0 CLMU-2860 Composition Portfolio 0 |
| PLMU-3920 Junior Composition Project 1 TYMU-2250 Music Technology II 3 (or TYMU-2251 Music Technology III 3) (or THMU-4140 Choral Arranging 2) TYMU-3250 Music Technology IV 3 Biology Elective 3.5 History Elective 3 Total 34.5 Fourth year: CLMU-2850 Composition Seminar (both semesters) 0 |
| PLMU-3920 Junior Composition Project 1 TYMU-2250 Music Technology II 3 (or TYMU-2251 Music Technology III 3) (or THMU-4140 Choral Arranging 2) TYMU-3250 Music Technology IV 3 Biology Elective 3.5 History Elective 3 Total 34.5 Fourth year: CLMU-2850 Composition Seminar (both semesters) 0 CLMU-2860 Composition Portfolio 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 HUM-1400 Introduction to the Humanities 3 PFMU-XXXXX Large Ensemble Performance 1 |
| PLMU-3920 Junior Composition Project 1 TYMU-2250 Music Technology II 3 (or TYMU-2251 Music Technology III 3) (or THMU-4140 Choral Arranging 2) TYMU-3250 Music Technology IV 3 Biology Elective 3.5 History Elective 3 Total 34.5 Fourth year: CLMU-2850 Composition Seminar (both semesters) 0 CLMU-2860 Composition Portfolio 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 HUM-1400 Introduction to the Humanities 3 PFMU-XXXXX Large Ensemble Performance 1 PLMU-XXXXX Private Lessons 2 |
| PLMU-3920 Junior Composition Project 1 TYMU-2250 Music Technology II 3 (or TYMU-2251 Music Technology III 3) (or THMU-4140 Choral Arranging 2) TYMU-3250 Music Technology IV 3 Biology Elective 3.5 History Elective 3 Total 34.5 Fourth year: CLMU-2850 Composition Seminar (both semesters) 0 CLMU-2860 Composition Portfolio 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 HUM-1400 Introduction to the Humanities 3 PFMU-XXXXX Large Ensemble Performance 1 PLMU-XXXXX Private Lessons 2 PLMU-4800 Music Composition 4 |
| PLMU-3920 Junior Composition Project 1 TYMU-2250 Music Technology II 3 (or TYMU-2251 Music Technology III 3) (or THMU-4140 Choral Arranging 2) TYMU-3250 Music Technology IV 3 Biology Elective 3.5 History Elective 3 Total 34.5 Fourth year: CLMU-2850 Composition Seminar (both semesters) 0 CLMU-2860 Composition Portfolio 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 HUM-1400 Introduction to the Humanities 3 PFMU-XXXX Large Ensemble Performance 1 PLMU-XXXX Private Lessons 2 PLMU-4800 Music Composition 4 PLMU-4900 Senior Recital 1 |
| PLMU-3920 Junior Composition Project 1 TYMU-2250 Music Technology II 3 (or TYMU-2251 Music Technology III 3) (or THMU-4140 Choral Arranging 2) TYMU-3250 Music Technology IV 3 Biology Elective 3.5 History Elective 3 Total 34.5 Fourth year: CLMU-2850 Composition Seminar (both semesters) 0 CLMU-2860 Composition Portfolio 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 HUM-1400 Introduction to the Humanities 3 PFMU-XXXX Large Ensemble Performance 1 PLMU-4800 Music Composition 4 PLMU-4900 Senior Recital 1 THMU-4100 Counterpoint 3 |
| PLMU-3920 Junior Composition Project 1 TYMU-2250 Music Technology II 3 (or TYMU-2251 Music Technology III 3) (or THMU-4140 Choral Arranging 2) TYMU-3250 Music Technology IV 3 Biology Elective 3.5 History Elective 3 Total 34.5 Fourth year: CLMU-2850 Composition Seminar (both semesters) 0 CLMU-2860 Composition Portfolio 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 HUM-1400 Introduction to the Humanities 3 PFMU-XXXX Large Ensemble Performance 1 PLMU-4800 Music Composition 4 PLMU-4900 Senior Recital 1 THMU-4100 Counterpoint 3 THMU-4110 Form and Analysis 3 |
| PLMU-3920 Junior Composition Project 1 TYMU-2250 Music Technology II 3 (or TYMU-2251 Music Technology III 3) (or THMU-4140 Choral Arranging 2) TYMU-3250 Music Technology IV 3 Biology Elective 3.5 History Elective 3 Total 34.5 Fourth year: CLMU-2850 Composition Seminar (both semesters) 0 CLMU-2860 Composition Portfolio 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 HUM-1400 Introduction to the Humanities 3 PFMU-XXXX Large Ensemble Performance 1 PLMU-4800 Music Composition 4 PLMU-4900 Senior Recital 1 THMU-4100 Counterpoint 3 THMU-4110 Form and Analysis 3 THMU-4130 Orchestration 2 |
| PLMU-3920 Junior Composition Project 1 TYMU-2250 Music Technology II 3 (or TYMU-2251 Music Technology III 3) (or THMU-4140 Choral Arranging 2) TYMU-3250 Music Technology IV 3 Biology Elective 3.5 History Elective 3 Total 34.5 Fourth year: CLMU-2850 Composition Seminar (both semesters) 0 CLMU-2860 Composition Portfolio 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 HUM-1400 Introduction to the Humanities 3 PFMU-XXXXX Large Ensemble Performance 1 PLMU-4800 Music Composition 4 PLMU-4900 Senior Recital 4 THMU-4100 Counterpoint 3 THMU-4110 Form and Analysis 3 THMU-4130 Orchestration 2 Physical Science Elective 3.5 |
| PLMU-3920 Junior Composition Project 1 TYMU-2250 Music Technology II 3 (or TYMU-2251 Music Technology III 3) (or THMU-4140 Choral Arranging 2) TYMU-3250 Music Technology IV 3 Biology Elective 3.5 History Elective 3 Total 34.5 Fourth year: CLMU-2850 Composition Seminar (both semesters) 0 CLMU-2860 Composition Portfolio 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 HUM-1400 Introduction to the Humanities 3 PFMU-XXXX Large Ensemble Performance 1 PLMU-4800 Music Composition 4 PLMU-4900 Senior Recital 1 THMU-4100 Counterpoint 3 THMU-4110 Form and Analysis 3 THMU-4130 Orchestration 2 |

Department of Music and Worship Keyboard Pedagogy

Keyboard Pedagogy

Statement of Purpose

The purpose of the **Bachelor of Music degree in keyboard pedagogy** is to thoroughly equip graduates to professionally teach students the art of piano playing. The program is designed to comprehensively address the needs of piano students of all ages and levels of proficiency.

Program Objectives

Through the keyboard pedagogy curriculum, students will be able to:

- 1. Identify criteria essential for professional piano teaching.
- 2. Identify the primary professional associations, periodicals, and industry partners which relate specifically to piano teaching.
- 3. Communicate effectively in one-on-one teaching.
- 4. Diagnose and correct technical problems of students.
- 5. Evaluate student progress through the establishment of educational goals and careful record keeping.
- Sequence repertoire and auxiliary learning materials for beginning through advanced students
- 7. Apply practical criteria in the evaluation of methods books.
- 8. Incorporate current audio-visual, electronic keyboard, and computer technology in the piano studio setting.
- 9. Implement group instruction methods in their teaching.
- 10. Cope with performance anxiety and avoid physical injury.
- 11. Accurately and artistically perform all teaching repertoire for their students.
- 12.Demonstrate knowledge of business practices and organizational procedures necessary for the establishment of a professional piano studio.
- Utilize effective teaching strategies appropriate for group instruction.
- 14.Demonstrate that they value and can perform the mentoring role of the piano teacher in the lives of their students. Students pursuing this major must complete the general education core.

The following requirements involve 75–76 semester hours:

| Proficiencies0–7 |
|---|
| Piano0–4 |
| CLMU-1810 Piano Class I0-2 |
| CLMU-1820 Piano Class II0-2 |
| THMU-1010 Introduction to Music Theory and Aural Skills 0-2 |
| THMU-1500 Introduction to Music Technology 0–1 |
| Music Foundation and Skills25–26 |
| 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 Music3) |
| THMU-1210, 1220, 2210, 2220 Music Theory I, II, III, and IV. 12 |
| THMU-1310, 1320, 2310, 2320 Aural Skills I, II, III, and IV 8 |
| Music Contexts9 |
| HLMU-2310 Introduction to Music Literature3 |
| HLMU-3310, 3320 Music History I and II |
| Music Performance19 |
| PFMU-3100–3980 Large Ensemble4 |
| PLMU-1000/4830 Private Lessons |
| *PLMU-4900 Senior Recital1 |
| Keyboard Pedagogy22 |
| KPMU-2010, 2020 Keyboard Pedagogy I and II |
| KPMU-3110, 3120 Directed Teaching I and II |
| KPMU-4110, 4120 Directed Teaching III, and IV |
| KPMU-3150, 3160, 4150, 4160 Keyboard Pedagogy |
| Seminar I, II, III, and IV |
| Approved Music Elective |
| *Capstone Course |

Keyboard Pedagogy Major Curriculum Summary

| General Education Proficiency Requirements | 0–5 |
|--|-------|
| General Education Requirements | 48–56 |
| Keyboard Pedagogy Major Requirements | 75–82 |
| Electives | 0–5 |
| Total (minimum, not including proficiency) | 128 |

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

Suggested Four-Year Curriculum for a Major in Keyboard Pedagogy

| major m respond r saugogy |
|--|
| First year: |
| BTGE-1720 Spiritual Formation3 |
| COM-1100 Fundamentals of Speech3 |
| ENG-1400 Composition |
| GMUS-1000 Music Philosophy and Aesthetics |
| GMUS-1030 Recital and Program Attendance (both semesters)0 |
| |
| PEF-1990 Physical Activity and the Christian Life |
| PFMU-XXXX Ensemble Performance2 |
| PLMU-XXXX Private Lessons4 |
| THMU-1210, 1220 Music Theory I and II6 |
| THMU-1310, 1320 Aural Skills I and II4 |
| Quantitative Elective |
| Total31 |
| |
| Second year: |
| BTGE-2730 Old Testament Literature3 |
| BTGE-2740 New Testament Literature3 |
| CDMU-2600 Introduction to Conducting2 |
| GMUS-1030 Recital and Program Attendance (both semesters)0 |
| HLMU-2100 Jazz History: Music of the Multi-Culture2 |
| (or HLMU-3400 Global Music3) |
| |
| HLMU-2310 Introduction to Music Literature |
| KPMU-2010, 2020 Keyboard Pedagogy I and II6 |
| PFMU-XXXX Ensemble Performance0 |
| PLMU-XXXX Private Lessons4 |
| THMU-2210, 2220 Music Theory III and IV6 |
| THMU-2310, 2320 Aural Skills III and IV4 |
| Total33 |
| |
| Third year: |
| BTGÉ-3755 Theology I3 |
| BTGE-3765 Theology II |
| GMUS-1030 Recital and Program Attendance (both semesters)0 |
| GSS-1100 Politics and American Culture3 |
| HLMU-3310 Music History I3 |
| HLMU-3320 Music History II |
| KPMU-3110, 3120 Directed Teaching I and II |
| KPMU-3110, 3120 Directed Teaching Failuri II |
| KPMU-3150, 3160 Keyboard Pedagogy Seminar I and II4 |
| PFMU-XXXX Ensemble Performance0 |
| PLMU-XXXX Private Lessons4 |
| Biology Elective |
| History Elective3 |
| Literature Elective |
| Total |
| |
| Fourth year: |
| GMUS-1030 Recital and Program Attendance (both semesters)0 |
| HUM-1400 Introduction to the Humanities3 |
| KPMU-4110, 4120 Directed Teaching III and IV4 |
| KPMU-4150, 4160 Keyboard Pedagogy Seminar III and IV4 |
| PFMU-XXXX Ensemble Performance |
| PLMU-4900 Senior Recital |
| |
| PLMU-XXXX Private Lessons |
| Music Elective |
| Physical Science Elective |
| Social Science/Global Awareness Elective3 |
| Elective5 |
| Total |
| |

Department of Music and Worship Music

Music

Statement of Purpose

The **Bachelor of Arts in music degree** is designed for students with a strong interest in music and other academic areas. It is an ideal degree for musically talented students who plan to pursue graduate programs that will accept a bachelor's degree in any academic major, such as law, international studies, and music therapy. The general studies credits within the major allow students to add specialized courses from any other area.

Program Objectives

Upon completion of the B.A. in music curriculum, students will be able to:

- Visually and aurally identify the building blocks of musical composition.
- Formulate, articulate, and defend a philosophy of music based upon sound interpretation of biblical principles.
- Demonstrate facility in the use of music technology.
- Perform proficiently in private lessons and in a large ensemble.
 - Recognize the factors that contribute to an artistic musical performance.
 - Fairly appraise and evaluate their musical performances as well as those of others.
 - Compile a repertory for their instrument.
- Research, plan, and perform/present a capstone senior recital or senior project.
- Value the functional role and stylistic diversity of music from various historical periods and cultures.

| Course requirements involve 58 semester hours including: | |
|--|-------|
| Proficiencies | 0-7 |
| Piano | 0–4 |
| CLMU-1810 Piano Class I0- | |
| CLMU-1820 Piano Class II0- | |
| THMU-1010 Introduction to Music Theory and Aural Skills | |
| THMU-1500 Introduction to Music Technology | 0–1 |
| Music Foundation and Skills | 16 |
| GMUS-1000 Music Philosophy and Aesthetics | 1 |
| GMUS-1030 Recital and Program Attendance | |
| THMU-1210, 1220, 2210 Music Theory I, II, and III | |
| THMU-1310, 1320, 2310 Aural Skills I, II, and III | |
| Music Contexts | |
| HLMU-2310 Introduction to Music Literature | |
| HLMU-3310, 3320 Music History I and II | 6 |
| Music Performance | |
| PFMU-3100–3980 Large Ensemble | |
| PLMU-1000/4830 Private Lessons | |
| Music Concentrations | |
| Primary Concentration (includes capstone course) | |
| Secondary Concentration | . 12 |
| Select primary and secondary concentrations | |
| from the following: | |
| Jazz and Improvisation Concentration | |
| HLMU-2100 Jazz History | |
| PFMU-3650 Chamber Ensemble | |
| PFMU-3980 Jazz Band | |
| THMU-3120 Jazz Theory and Improvisation I | |
| THMU-3130 Jazz Theory and Improvisation II | |
| *PLMU-4920 Senior Project | |
| Music Composition Concentration | 12-13 |
| CLMU-2800 Introduction to Composition | |
| PLMU-2800-4800 Music CompositionTHMU-4130 Orchestration | |
| | |
| THMU-4140 Choral Arranging | |
| *PLMU-4920 Senior Project | I |

| Music History Concentration12-1 | 3 |
|--|---|
| HLMU-2100 Jazz History2 | |
| HLMU-3400 Global Music3 | |
| HLMU-4980 Special Topics in Music History2 | |
| HLMU-3000/4000 elective | |
| PLMU-3910 Junior Seminar1 | |
| PLMU-4910 Senior Seminar1 | |
| *PLMU-4920 Senior Project1 | |
| Music Technology Concentration12-1 | 3 |
| TYMU-1251 Music Technology I | |
| TYMU-2250 Music Technology II | |
| TYMU-2251 Music Technology III | |
| TYMU-3250 Music Technology IV3 | |
| *PLMU-4920 Senior Project1 | |
| Open Music Studies Concentration12-1 | 3 |
| PLMU-3910 Junior Seminar1 | |
| PLMU-4910 Senior Seminar1 | |
| Electives (approved by advisor) 10 | |
| *PLMU-4920 Senior Project1 | |
| Performance Studies Concentration12-1 | 3 |
| PFMU-3650 Chamber Ensemble3 | |
| PLMU-1000-4830 Private Lessons 8 | |
| PLMU-3900 Junior Recital1 | |
| *PLMU-4900 Senior Recital1 | |
| Worship Concentration12-1 | 3 |
| BTAT-3730 Theology of Worship3 | |
| THMU-1250 Contemporary Musicianship I2 | |
| WSHP-1010 Introduction to Worship Ministry1 | |
| WSHP-1020 Introduction to Worship Technology2 | |
| WSHP-2060 Music and the Arts in Worship3 | |
| WSHP-2200 Worship Field Experience | |
| *PLMU-4920 Senior Project1 | |
| *Capstone Course required only if primary concentration. | |
| Music Major Curriculum Summary | |

Music Major Curriculum Summary

| Fotal (minimum, not including proficiency) | 128 |
|--|-------|
| Electives | 7–22 |
| Music Major Requirements | 58-65 |
| General Education Requirements | 48-56 |
| General Education 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 Music

| First year: BTGE-1720 Spiritual Formation | 3 9 2 3 4 3 3 |
|--|---|
| Second year: BTGE-2730 Old Testament Literature | 3 |
| Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 GMUS-1030 Recital and Program Attendance (both semesters) 0 GSS-1100 Politics and American Culture. 3 HLMU-3310, 3320 Music History I and II. 6 PLMU-1000/4830 Private Lessons 2 Biology Elective 3.5 LIT-2XXX Literature Elective 3 Secondary concentration 9 Total 32.5 | 3 3 3 3 3 |
| Fourth year: GMUS-1030 Recital and Program Attendance (both semesters) | 3 |

Performance

Statement of Purpose

The purpose of the **Bachelor of Music degree** in performance is to prepare students for graduate school and careers in performance. The program is designed to offer the highest possible level of studio instruction and mentoring, opportunity for solo and ensemble performance, and general knowledge of the music literature of the performance area.

Program Objectives

A graduate of the Bachelor of Music in performance degree will:

- Display familiarity with the music of their instrument, including all essential music associated with their instrument.
- Communicate effectively about music performance from a theological perspective.
- Evaluate with professional awareness the important performers, recordings, institutions, and events that are significant to their instrument.
- Develop skills concerning the intricacies of the physical technique of playing their instrument, and be able to articulate this knowledge to others.
- 5. Have the skills necessary to prepare for performance independent of outside teaching and assistance.
- Professionally play their instrument with a high level of proficiency, and be able to integrate musical analysis with a variety of theoretical approaches.

Students pursuing this major must complete the general education core.



Department of Music and Worship Performance

The following requirements involve 75-76 semester hours:

Proficiencies0-7 Piano......0-4 CLMU-1810 Piano Class I......0-2 CLMU-1820 Piano Class II......0-2 THMU-1010 Introduction to Music Theory and Aural Skills.. 0-2 THMU-1500 Introduction to Music Technology 0-1 Music Foundation and Skills30-31 GMUS-1000 Music Philosophy and Aesthetics...... 1 (or HLMU-3400 Global Music.....3) THMU-1210, 1220, 2210, 2220 Music Theory I, II, III, and IV. 12 THMU-1310, 1320, 2310, 2320 Aural Skills I, II, III, and IV...... 8 Select one of the following2 CDMU-3610 Choral Conducting2 CDMU-3620 Instrumental Conducting2 Music Contexts9 HLMU-3310 Music History I......3 HLMU-3320 Music History II......3 Music Performance......22 CLMU-2750 Performance Seminar 0 CLMU-2760 Performance Portfolio......0 PLMU-1000/4830 Private Lessons (in major instrument) 14 PLMU-3900 Junior Recital...... *PLMU-4900 Senior Recital...... 1 Choose one concentration from the following14 Instrumental Concentration...... 14 MUED-3750 Instrumental Pedagogy2 PFMU-3650 Chamber Ensemble (2 x 1 credit).....2 THMU-4130 Orchestration2 Select one of the following1 CLMU-2210 Brass Literature 1 CLMU-2220 Percussion Literature 1 CLMU-2230 String Literature 1 CLMU-2240 Woodwind Literature 1 Approved Electives7 Piano Concentration 14 CLMU-2300 Keyboard Literature2 CLMU-2310 Collaborative Piano (6 x 1 credit)......6 Select one of the following3 KPMU-2020 Keyboard Pedagogy II......3 Approved Electives3 Vocal Concentration......14 CLMU-1170, 1180 Diction for Singers I and II4 CLMU-3120 Vocal Literature3 CLMU-3130 Opera and Oratorio Literature......3 PFMU-3850 Opera Ensemble (2 x 1 credit).....2 MUED-3730 Vocal Pedagogy.....2 Required Cognate: Proficiency in two different foreign languages. selected from French, German, Italian, and Spanish (Proficiency in each language may be satisfied by satisfactory completion of two years of the same high school foreign language or one semester of college-level foreign language.) **Performance Major Curriculum Summary** General Education Proficiency Requirements0-5 General Education Requirements......48-56 Performance Major Requirements.......75–82 Electives0-5 Total (minimum, not including proficiency)128 A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Vocal Performance

| First year: | |
|--|--|
| BTGE-1720 Spiritual Formation3 | |
| CLMU-2750 Performance Seminar (both semesters)0 | |
| COM-1100 Fundamentals of Speech | |
| ENG-1400 Composition | |
| GMUS-1000 Music Philosophy and Aesthetics | |
| GMUS-1030 Recital and Program Attendance (both semesters)0 | |
| PEF-1990 Physical Activity and the Christian Life | |
| PLMU-XXXX Private Lessons | |
| THMU-1210, 1220 Music Theory I and II | |
| THMU-1310, 1320 Aural Skills I and II4 | |
| LIT-2XXX Literature Elective | |
| Quantitative Elective | |
| Total | |
| Casanduran | |
| Second year: BTGE-2730 Old Testament Literature3 | |
| BTGE-2740 New Testament Literature | |
| CDMU-2600 Introduction to Conducting | |
| CLMU-1170, 1180 Diction for Singers I and II4 | |
| CLMU-2750 Performance Seminar (both semesters) | |
| GMUS-1030 Recital and Program Attendance (both semesters)0 | |
| HLMU-2100 Jazz History: Music of the Multi-Culture2 | |
| (or HLMU-3400 Global Music3) | |
| HLMU-2310 Introduction to Music Literature | |
| PFMU-XXXX Ensemble Performance | |
| PLMU-XXXX Private Lessons4 | |
| THMU-2210, 2220 Music Theory III and IV6 | |
| THMU-2310, 2320 Aural Skills III and IV4 | |
| Total | |
| Third year: | |
| BTGE-3755 Theology I3 | |
| BTGE-3765 Theology II | |
| CDMU-3620 Instrumental Conducting2 | |
| (or CDMU-3610 Choral Conducting2) | |
| CLMU-2750 Performance Seminar (both semesters)0 | |
| CLMU-3120 Vocal Literature3 | |
| MUED-3730 Vocal Pedagogy2 | |
| GMUS-1030 Recital and Program Attendance (both semesters)0 | |
| GSS-1100 Politics and American Culture3 | |
| HLMU-3310, 3320 Music History I and II6 | |
| PFMU-XXXX Ensemble Performance0 | |
| PLMU-XXXX Private Lessons4 | |
| PFMU-3850 Opera Ensemble1 | |
| PLMU-3900 Junior Recital1 | |
| Biology Elective | |
| History Elective | |
| 10tai 34.3 | |
| Fourth year: | |
| CLMU-2750 Performance Seminar (both semesters)0 | |
| CLMU-2760 Performance Portfolio0 | |
| CLMU-3130 Opera and Oratorio Literature | |
| GMUS-1030 Recital and Program Attendance (both semesters)0 | |
| HUM-1400 Introduction to the Humanities | |
| PFMU-XXXX Ensemble Performance | |
| PFMU-3850 Opera Ensemble | |
| PLMU-XXXX Private Lessons | |
| THMU-4110 Form and Analysis | |
| Physical Science Elective | |
| Social Science/Global Awareness Elective | |
| Elective | |
| Total | |
| | |

Department of Music and Worship Performance

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

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

Suggested Four-Year Curriculum for a Major in Instrumental Performance

First vear: BTGE-1720 Spiritual Formation3 CLMU-2750 Performance Seminar (both semesters)0 COM-1100 Fundamentals of Speech......3 ENG-1400 Composition......3 GMUS-1000 Music Philosophy and Aesthetics1 GMUS-1030 Recital and Program Attendance (both semesters)......0 PEF-1990 Physical Activity and the Christian Life2 PFMU-XXXX Ensemble Performance2 PLMU-XXXX Private Lessons2 THMU-1210, 1220 Music Theory I and II......6 THMU-1310, 1320 Aural Skills I and II......4 Quantitative Elective3 Total 32 Second year: BTGE-2730 Old Testament Literature......3 BTGE-2740 New Testament Literature3 CDMU-2600 Introduction to Conducting......2 CLMU-2750 Performance Seminar (both semesters)0 GMUS-1030 Recital and Program Attendance (both semesters)......0 HLMU-2100 Jazz History: Music of the Multi-Culture2 (or HLMU-3400 Global Music3) HLMU-2310 Introduction to Music Literature3 PLMU-XXXX Private Lessons4 THMU-2210, 2220 Music Theory III and IV6 THMU-2310, 2320 Aural Skills III and IV4 Total 30 Third year: BTGE-3765 Theology II3 CDMU-3620 Instrumental Conducting......2 (or CDMU-3610 Choral Conducting.....2) CLMU-2750 Performance Seminar (both semesters)0 MUED-3750 Instrumental Pedagogy2 GMUS-1030 Recital and Program Attendance (both semesters)......0 GSS-1100 Politics and American Culture......3 HLMU-3310, 3320 Music History I and II......6 PFMU-XXXX Ensemble Performance0 PFMU-XXXX Chamber Music2 PLMU-XXXX Private Lessons4 PLMU-3900 Junior Recital.....1 Biology Elective3.5 History Elective......3 Total 32.5 CLMU-2750 Performance Seminar (both semesters)0 CLMU-2760 Performance Portfolio......0 GMUS-1030 Recital and Program Attendance (both semesters)......0 HUM-1400 Introduction to the Humanities......3 PFMU-XXXX Ensemble Performance2 PLMU-XXXX Private Lessons4 PLMU-4900 Senior Recital1 THMU-4110 Form and Analysis3 THMU-4130 Orchestration.....2 Music Elective......7 Social Science/Global Awareness Elective......3 Elective5 Total 33.5

Suggested Four-Year Curriculum for a Major in Piano Performance

| BTGE-1720 Spiritual Formation | |
|--|--|
| CLMU-2750 Performance Seminar (both semesters) | |
| COM-1100 Fundamentals of Speech | |
| ENG-1400 Composition | 3 |
| GMUS-1000 Music Philosophy and Aesthetics | 1 |
| GMUS-1030 Recital and Program Attendance (both semesters) | |
| PEF-1990 Physical Activity and the Christian Life | 2 |
| PFMU-XXXX Ensemble Performance | |
| PLMU-XXXX Private Lessons | |
| THMU-1210, 1220 Music Theory I and II | |
| THMU-1310, 1320 Aural Skills I and II | 4 |
| LIT-2XXX Literature Elective | |
| Quantitative Elective | _ |
| Total | . 32 |
| Second year: | |
| BTGE-2730 Old Testament Literature | 3 |
| BTGE-2740 New Testament Literature | 3 |
| CDMU-2600 Introduction to Conducting | |
| CLMU-2310 Collaborative Piano | |
| CLMU-2750 Performance Seminar (both semesters) | |
| GMUS-1030 Recital and Program Attendance (both semesters) | |
| HLMU-2100 Jazz History: Music of the Multi-Culture | 2 |
| (or HLMU-3400 Global Music | |
| HLMU-2310 Introduction to Music Literature | Ś |
| KPMU-2010 or 2020 Keyboard Pedagogy I or II | 3 |
| PFMU-XXXX Ensemble Performance | |
| PLMU-XXXX Private Lessons | 4 |
| THMU-2210, 2220 Music Theory III and IV | 6 |
| THMU-2310, 2320 Aural Skills III and IV | 4 |
| Total | . 34 |
| Third woor | |
| Third year: BTGE-3755 Theology I | 0 |
| BTGE-3755 Theology L | |
| DTCE 2765 The close II | 0 |
| BTGE-3765 Theology II | 3 |
| BTGE-3765 Theology II | 3 2 |
| BTGE-3765 Theology II | 3 2 |
| BTGE-3765 Theology II | 3 2 2) |
| BTGE-3765 Theology II | 2 2) 2 |
| BTGE-3765 Theology II | 2 2) 2 2 |
| BTGE-3765 Theology II | 2 2) 2 2 |
| BTGE-3765 Theology II | 2 2) 2 2 0 |
| BTGE-3765 Theology II | 2 2) 2 2 0 |
| BTGE-3765 Theology II | 3 2 2 2 0 0 |
| BTGE-3765 Theology II CDMU-3620 Instrumental Conducting (or CDMU-3610 Choral Conducting CLMU-2300 Keyboard Literature CLMU-2310 Collaborative Piano CLMU-2750 Performance Seminar (both semesters) GMUS-1030 Recital and Program Attendance (both semesters) GSS-1100 Politics and American Culture HLMU-3310, 3320 Music History I and II PFMU-XXXX Ensemble Performance PLMU-XXXX Private Lessons | 3 2 2 2 0 0 6 |
| BTGE-3765 Theology II | 3 2 2 2 0 0 3 6 |
| BTGE-3765 Theology II | 2 2) 2 0 0 0 0 4 |
| BTGE-3765 Theology II | 2 2 2 0 0 3 6 4 1 |
| BTGE-3765 Theology II | 2 2 2 0 0 3 6 4 1 |
| BTGE-3765 Theology II | 2 2 2 0 3 6 4 1 33 |
| BTGE-3765 Theology II | 22)200 |
| BTGE-3765 Theology II | 22203 |
| BTGE-3765 Theology II | 22033333333320 |
| BTGE-3765 Theology II | 220 |
| BTGE-3765 Theology II | 22)203 |
| BTGE-3765 Theology II | 22036041 3.5200000 |
| BTGE-3765 Theology II | 22036041 3.5000000 |
| BTGE-3765 Theology II | 222 |
| BTGE-3765 Theology II | 222 |
| BTGE-3765 Theology II. CDMU-3620 Instrumental Conducting (or CDMU-3610 Choral Conducting CLMU-2300 Keyboard Literature CLMU-2310 Collaborative Piano CLMU-2750 Performance Seminar (both semesters) GMUS-1030 Recital and Program Attendance (both semesters) GSS-1100 Politics and American Culture HLMU-3310, 3320 Music History I and II PFMU-XXXX Ensemble Performance PLMU-XXXX Private Lessons PLMU-3900 Junior Recital Biology Elective History Elective Total | 222 |
| BTGE-3765 Theology II. CDMU-3620 Instrumental Conducting (or CDMU-3610 Choral Conducting CLMU-2300 Keyboard Literature CLMU-2310 Collaborative Piano CLMU-2750 Performance Seminar (both semesters) GSS-1100 Politics and American Culture HLMU-3310, 3320 Music History I and II PFMU-XXXX Ensemble Performance PLMU-XXXX Private Lessons PLMU-3900 Junior Recital Biology Elective History Elective Total | 222 |
| BTGE-3765 Theology II. CDMU-3620 Instrumental Conducting (or CDMU-3610 Choral Conducting CLMU-2300 Keyboard Literature CLMU-2310 Collaborative Piano CLMU-2750 Performance Seminar (both semesters) GMUS-1030 Recital and Program Attendance (both semesters) GSS-1100 Politics and American Culture HLMU-3310, 3320 Music History I and II PFMU-XXXX Ensemble Performance PLMU-XXXX Private Lessons PLMU-3900 Junior Recital Biology Elective History Elective Total | 222 |
| BTGE-3765 Theology II. CDMU-3620 Instrumental Conducting (or CDMU-3610 Choral Conducting CLMU-2300 Keyboard Literature CLMU-2310 Collaborative Piano CLMU-2750 Performance Seminar (both semesters) GSS-1100 Politics and American Culture HLMU-3310, 3320 Music History I and II PFMU-XXXX Ensemble Performance PLMU-XXXX Private Lessons PLMU-3900 Junior Recital Biology Elective History Elective Total | 22 |

Department of Music and Worship Teacher Education Licensure Program

Teacher Education Licensure Program Bachelor of Music Education

Statement of Purpose

The **Bachelor of Music Education** prepares students to teach vocal, instrumental, or general music in grades K–12 in public and Christian schools. Two tracks, choral and instrumental, are available. The Bachelor of Music Education will provide the graduate with all the skills, knowledge, and competencies prerequisite for state certification and employment in music education.

Program Objectives

After completing a degree in the music education program at Cedarville, the student will:

- Effectively teach music at the elementary, middle, and high school levels by selecting appropriate methods, materials and music, planning course outcomes, and activities, presenting course content, and evaluating course outcomes.
- Identify and recall current trends, curricula, and methodologies used in music education.
- 3. Pass the licensure examination in order to qualify as a teacher in a public school in Ohio.
- Contribute to the community of professional music educators and continue personal lifelong growth in their chosen music field, including local, state, division, and national participation in the National Association for Music Education.
- Integrate faith, learning, and life as it pertains to the discipline of music education.
- Value music and the arts while inspiring enthusiasm for music and the arts in others.
- Create inclusive music education settings that include both children with disabilities and children with extraordinary talents.
- 8. Articulate a working philosophy of music education.

The following requirements involve 95–102 (choral track) or 96–103 (instrumental track) semester hours:

Proficiencies

| Proficiencies0-7 |
|---|
| Piano0-4 |
| CLMU-1810 Piano Class I0-2 |
| CLMU-1820 Piano Class II0-2 |
| THMU-1010 Introduction to Music Theory and Aural Skills 0–2 |
| THMU-1500 Introduction to Music Technology 0-1 |
| Music Foundation and Skills28–29 |
| CDMU-2600 Introduction to Conducting2 |
| GMUS-1000 Music Philosophy and Aesthetics1 |
| HLMU-3400 Global Music3 |
| THMU-1210, 1220, 2210, 2220 Music Theory I, II, III, and IV. 12 |
| THMU-1310, 1320, 2310, 2320 Aural Skills I, II, III, and IV 8 |
| Choral majors also add: |
| CDMU-3610 Choral Conducting2 |
| Instrumental majors also add: |
| CDMU-3620 Instrumental Conducting |
| CLMU-1860 Voice Class |
| Music Contexts9 |
| HLMU-2310 Introduction to Music Literature |
| HLMU-3310, 3320 Music History I and II |
| Music Performance |
| PFMU-3100–3980 Large Ensemble |
| PLMU-1000/4830 Private Lessons |
| PLMU-4900 Senior Recital |
| Music Education |
| GMUS-1030 Recital and Program Attendance |
| MUED-1000 NAfME |
| MUED-3710 Music for Early Childhood |
| MUED-3720 Music for Adolescent/Young Adult |
| |

| Choral majors also add: | |
|---|-----|
| CLMU-1170 or 1180 Diction for Singers I or II2 | |
| CDMU-3630 Choral Methods2 | |
| MUED-2730 Wind and Percussion Methods2 | |
| MUED-2900 Guitar Methods1 | |
| MUED-3730 Vocal Pedagogy2 | |
| Instrumental majors also add: | |
| MUED-3910 Instrumental Administration | |
| Three of the following6 | |
| MUED-2870 Brass Methods for Music Educators2 | |
| MUED-2910 Woodwind Methods for Music Educators2 | |
| MUED-2930 String Methods for Music Educators2 | |
| MUED-2950 Percussion Methods for Music Educators2 | |
| Teacher Education3 | 9 |
| reacher Luucation | 2 |
| EDSE-3900 Music Education Field Experience |) _ |
| |) _ |
| EDSE-3900 Music Education Field Experience |) _ |
| EDSE-3900 Music Education Field Experience |) < |
| EDSE-3900 Music Education Field Experience |) |
| EDSE-3900 Music Education Field Experience |) |
| EDSE-3900 Music Education Field Experience |) |
| EDSE-3900 Music Education Field Experience | 02 |
| EDSE-3900 Music Education Field Experience2EDSP-2100 Exceptionalities and Behavior2EDUC-1000 The Education Profession2EDUC-1050 Preliminary Student Involvement0EDUC-2050 Teaching Diverse Learners2EDUC-2100 e-Learning for Educators3EDUC-2500 Educational Psychology3 | |
| EDSE-3900 Music Education Field Experience | |
| EDSE-3900 Music Education Field Experience 2 EDSP-2100 Exceptionalities and Behavior 2 EDUC-1000 The Education Profession 2 EDUC-1050 Preliminary Student Involvement 0 EDUC-2050 Teaching Diverse Learners 2 EDUC-2100 e-Learning for Educators 3 EDUC-2500 Educational Psychology 3 EDUC-3100 Philosophical Foundations of Education 3 EDUC-4000 Reading in the Content Area: Multi-Age 3 | 02 |
| EDSE-3900 Music Education Field Experience | •2 |

Music Education (Multi-Age) — Choral Major Curriculum Summary

| General Education Proficiency Requirements | |
|---|--------|
| General Education Requirements | 48–56 |
| Music Education — Choral Major Requirements | 95-102 |
| Total (minimum, not including proficiency) | 143 |

Music Education (Multi-Age) — Instrumental Major Curriculum Summary

| Total (minimum, not including proficiency) | 144 |
|---|-------|
| Music Education — Instrumental Major Requirements | |
| General Education Requirements | 48–56 |
| General Education Proficiency Requirements | 0–5 |



0_7

Department of Music and Worship Bachelor of Music Education

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

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

| BTG COM EDU ENG GMU MUE PEF PFM PLM THM | tyear: GE-1720 Spiritual Formation M-1100 Fundamentals of Speech JC-1000 The Education Profession JC-1050 Preliminary Student Involvement G-1400 Composition US-1000 Music Philosophy and Aesthetics US-1030 Recital and Program Attendance (both semesters) ED-1000 NAfME (both semesters) F-1990 Physical Activity and the Christian Life MU-XXXX Ensemble Performance MU-XXXX Private Lessons MU-1210, 1220 Music Theory I and II MU-1310, 1320 Aural Skills I and II Intitative Elective | 3 0 1 0 0 2 2 |
|--|---|---------------------------------|
| CLN MUE | ral Majors Add: MU-1170 or 1180 Diction for Singers I or II ED-2900 Guitar Methods oral Total | 1 |
| MUE | rumental Majors Add: ED-XXXX Instrumental Methods Electives rumental Total | |
| BTG BTG CDM EDS EDU EDU GMU HLM MUE PFM PLM THM | ond year: GE-2730 Old Testament Literature | 2233030026 |
| Tota | il | . 36 |



| Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 EDSE-3900 Music Education Field Experience 2 GMUS-1030 Recital and Program Attendance (both semesters) 0 GSS-1100 Politics and American Culture 3 HLMU-3310, 3320 Music History I and II 6 MUED-1000 NAfME (both semesters) 0 MUED-3710 Music for Early Childhood 3 MUED-3720 Music for Adolescent/Young Adults 3 PFMU-XXXXX Ensemble Performance 0 PLMU-XXXXX Private Lessons 2 History Elective 3 LIT-2XXX Literature Elective 3 |
|---|
| Choral Majors Add:CDMU-3610 Choral Conducting2CDMU-3630 Choral Methods2Choral Total35 |
| Instrumental Majors Add: CDMU-3620 Instrumental Conducting |
| Summer: EDUC-4000 Reading in the Content Area: Multi-Age3 |
| Fourth year: 3 EDUC-3100 Philosophical Foundations of Education 3 EDUC-4900 Student Teaching and Seminar: Multi-Age 12 GMUS-1030 Recital and Program Attendance (both semesters) 0 HUM-1400 Introduction to the Humanities 3 MUED-1000 NAfME (both semesters) 0 PFMU-XXXX Ensemble Performance 0 PLMU-XXXX Private Lessons 2 PLMU-4900 Senior Recital 1 Biology Elective 3.5 Physical Science Elective 3.5 Social Science Elective 3 |
| Choral Majors Add:MUED-2730 Wind and Percussion Methods2MUED-3730 Vocal Pedagogy2Choral Total35 |
| Instrumental Majors Add: CLMU-1860 Voice Class |



Department of Music and Worship Worship

Worship

The **Bachelor of Arts in worship degree** is an interdisciplinary degree designed to help prepare students who are interested in careers in worship leadership and related fields. All students must take courses in music, theology, and worship-related fields such as theatre, broadcasting and digital 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 59–64 semester hours: Music14–19 |
|---|
| Proficiencies (voice, either piano or guitar, and Theory/Aural Skills)0–7 |
| CLMU-1860 Voice Class0-1 |
| Piano0-4 CLMU-1810 Piano Class I0-2 |
| CLMU-1820 Piano Class II0-2 OR |
| PLMU-1830 Contemporary Guitar0-2 |
| THMU-1010 Introduction to Music Theory and |
| Aural Skills0-2 THMU-1250 Contemporary Musicianship I2 |
| THMU-2250 Contemporary Musicianship II |
| THMU-2260 Contemporary Musicianship III |
| PFMU-3100–3980 Large Ensembles |
| Worship |
| Worship21 WSHP-1010 Introduction to Worship Ministry |
| WSHP-1020 Introduction to Worship Technologies |
| WSHP-2100 Worship Forum (every semester) |
| WSHP-2200 Worship Field Experience 1 |
| WSHP-3100 Worship Practicum |
| WSHP-3200 Worship Administration |
| Theology12 |
| BTOT-3140 Psalms |
| *BTHT-3340 Christian Theology 1:Bible, Trinity, God |
| the Father3 or BTHT-3350 Christian Theology 2:God the Son and |
| God the Spirit3 |
| or BTHT-3360 Christian Theology 3:Humanity, Angels, |
| and Salvation3 or BTHT-3370 Christian Theology 4:The Church and |
| Last Things3 |
| BTAT-3410 Discipleship |
| BTAT-3730 Theology of Worship3 |
| *The dual-listed 6000-level courses can be used by approval for the undergraduate students. |
| |

Worship Major Curriculum Summary

| Total (minimum, not including proficiency) | 128 |
|--|-------|
| Electives | 5–18 |
| Worship Major Requirements | 59–64 |
| General Education Requirements | 51–59 |
| Proficiency Requirements | 0-/ |

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

Suggested Four-Year Curriculum for a Major in Worship

| for a Major in Worship |
|---|
| First year: |
| BTGE-1720 Spiritual Formation3 |
| COM-1100 Fundamentals of Speech3 |
| ENG-1400 Composition |
| HUM-1400 Introduction to the Humanities |
| THMU-1250 Contemporary Musicianship I |
| PEF-1990 Physical Activity and the Christian Life |
| PFMU-XXXX Large Ensemble Performance |
| PLMU-XXXX Private Lessons |
| WSHP-1010 Introduction to Worship Ministry |
| WSHP-1020 Introduction to Worship Technologies2 |
| WSHP-2100 Worship Forum (both semesters)0 |
| LIT-2XXX Literature Elective |
| |
| Electives |
| Total |
| Second year: |
| BTGE-2730 Old Testament Literature3 |
| BTGE-2740 New Testament Literature |
| GSS-1100 Politics and American Culture |
| PFMU-XXXX Ensemble Performance |
| PLMU-XXXX Private Lessons 2 |
| THMU-2250 Contemporary Musicianship II |
| THMU-2260 Contemporary Musicianship III |
| WSHP-2060 Music and the Arts in Worship |
| |
| WSHP-2100 Worship Forum (both semesters)0 |
| WSHP-2200 Worship Field Experience |
| Social Science/Global Awareness Elective |
| |
| Elective |
| Total |
| Third year: |
| BTGE-3755 Theology I |
| BTGE-3765 Theology II3 |
| BTAT-3410 Discipleship3 |
| (or BTAT-33400 Biblical Care and Counseling3) |
| BTAT-3730 Theology of Worship3 |
| PFMU-XXXX Ensemble Performance |
| PLMU-XXXX Private Lessons |
| WSHP-2100 Worship Forum (both semesters)0 |
| WSHP-3100 Worship Practicum |
| WSHP-3200 Worship Administration |
| History Elective |
| Specified Electives |
| Total |
| 10tal 31 |
| Fourth year: |
| BTOT-3140 Psalms3 |
| BTHT-33XX Christian Theology |
| PFMU-XXXX Ensemble Performance0 |
| WSHP-2100 Worship Forum (both semesters)0 |
| WSHP-3100 Worship Practicum |
| WSHP-4900 Worship Internship9 |
| Biology Elective |
| Humanities Elective |
| Physical Science Elective |
| Specified Elective 3.5 |
| |
| Electives |
| Total |
| |

Department of Music and Worship Minors



Minors

Music Minor

The **music minor** allows students with interests and abilities in music to build upon this background through formal music instruction. Students who minor in music should begin the program no later than their sophomore year.

| Course requirements involve 16 semester hours. | |
|--|---|
| CDMU-2600 Introduction to Conducting | 2 |
| GMUS-1030 Recital and Program Attendance (2 semesters) | 0 |
| HUM-2430 Enjoyment of Music | 3 |
| PFMU-3100-3980 Large Ensemble | 2 |
| PLMU-1000/4830 Private Lessons | 2 |
| *THMU-1010 Introduction to Music Theory | 2 |
| *THMU-1210 Music Theory I | |
| *THMU-1310 Aural Skills I | |
| | |

*Students in this minor are required to take these classes prior to private lessons.

Music Technology Minor

The **music technology minor** gives students important skills in digital music applications, including audio recording and editing, MIDI, digital live performance, synthesis, and composition for media.

| Course requirements involve 16–17 semester hours. | |
|---|---|
| THMU-1010 Introduction to Music Theory | 2 |
| THMU-1210 Music Theory I | 3 |
| Or THMU-1250 Contemporary Musicianship I | 2 |
| TYMU-1251 Music Technology I | 3 |
| TYMU-2250 Music Technology II | 3 |
| TYMU-2251 Music Technology III | 3 |
| TYMU-3250 Music Technology IV | |

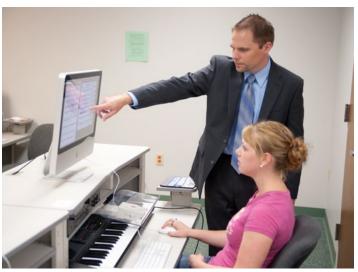


Worship Minor

The **worship minor** is designed to help prepare students who are interested in careers in worship leadership and related fields. Course requirements involve 15 semester hours.

WSHP-2100 Worship Forum (two semesters)0







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School of Nursing Mission Statement

Mission Statement

As a Christ-centered learning community, the Cedarville University School 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

The School of Nursing program is accredited by the Commission on Collegiate Nursing Education and has full approval by the Ohio Department of Higher Education and the Ohio Board of Nursing.

Admission

Students who wish to apply for admission to Cedarville University and major in nursing need a strong commitment to leading a godly lifestyle and learning ways to use nursing as ministry for Christ. Acceptance by Cedarville University does not guarantee acceptance into the nursing major. A college preparatory curriculum including four years of both mathematics and science (algebra, biology, and chemistry are required) provides the best academic preparation for the nursing major. An ACT composite score of 24 (or SAT composite of 1100) or higher is required to enter the program as a nursing major.

A select number of students who have not achieved these scores, but who have met the above curricular requirements and are otherwise eligible for admission to the University, may be admitted as pre-nursing students. It is the responsibility of pre-nursing students to obtain a change of major form in order to change their major to nursing if they earn an unrounded cumulative GPA of 3.0 by the end of freshman year at Cedarville University.

- Nursing major ACT: 24 or higher; SAT: 1100 or higher
- Pre-Nursing (if does not have ACT of 24, SAT of 1100, take courses in freshman nursing plan; change major to nursing when earns unrounded cumulative GPA of 3.0)
- Only nursing majors may take 2000 level nursing courses



Progression

Students must fulfill academic, nonacademic, and technical requirements in order to progress in the nursing program. In addition, students must receive a positive recommendation from the faculty of the School of Nursing each semester.

Checkpoint #1

- End of freshman year; after May session grades have been submitted
- Students must have an unrounded cumulative GPA of 3.0 or higher to progress to sophomore-level (2000) nursing courses for fall semester
- If GPA less than (<) 3.0:
 - · Change major
 - 5-year plan
 - **Request for extension of GPA audit (see nursing student handbook)
- · Meets all academic requirements

Checkpoint #2

- A transcript audit will be performed early spring semester of sophomore year to verify:
 - Student is on track for progression to junior-year plan
 - Student has earned C- or higher in all nursing, psychology, and science courses
 - Anything less than C- must be repeated and may be repeated one time only
 - Student has no more than four remaining general education/Bible courses at start of junior-year clinical courses
 - · Meets all academic requirements
- Students will be permitted to progress into 3000-level clinical courses depending on availability of faculty and clinical sites. In the event numbers of eligible students exceed clinical site availability, registration for 3000-level clinical courses will be ranked by GPA.

Checkpoint #3

- End of Sophomore year; after May session grades have been submitted
- Students must have an unrounded cumulative GPA of 3.0 or higher to progress to 3000-level clinical courses of fall semester
- If GPA less than (<) 3.0:
 - Change major
 - 5-year plan
 - ** Request for extension of GPA audit (see nursing student handbook)
- · Meets all academic requirements



School of Nursing Nonacademic Requirements

Academic Requirements

- Maintain GPA as follows:
 - End of freshman year unrounded cumulative GPA of 3.0 or higher
 - b. End of sophomore year unrounded cumulative GPA of 3.0 or higher
 - End of fall semester of junior year (or first 3000-level clinical course) through to graduation, unrounded cumulative GPA 2.5 or higher
- Any course for which the minimal grade is not achieved must be repeated.
 - A C- or higher is required in all nursing, psychology, and science courses:
 - . CHEM-1000 Principles of Chemistry
 - ii. GBIO-2210 Principles of Microbiology
 - iii. GBIO-2010 Human Anatomy and Physiology I
 - iv. GBIO-2015 Human Anatomy and Physiology II
 - v. PYCH-1600 General Psychology
 - vi. PYCH-2610 Statistics
 - b. Students may repeat a course one time only.
- 3. Earn a weighted exam average of >75% in all nursing courses that have two or more exams. The final exam will be part of the weighted exam average in determining passing or failing a course. If a student achieves an exam average less than 75%, but an overall grade greater than 75%, the student will be given a D+ in the course. If a student achieves an overall course grade less than 75%, the student will be given the overall course grade earned.
- A student receiving less than C- in a nursing course will fail the course
 - a. A failing grade or WF (withdraw fail) in two 2000-level or higher nursing courses in the same or subsequent semesters will result in removal from the program.
 - A single failure in any 2000-level or higher nursing course will result in student being placed on academic probation.
 - c. A student will not be removed from academic probation. After a first nursing course failure, student will be on probation until another nursing course failure resulting in removal from the program, or until successful completion of the program.
- 5. Any prerequisite course taken at another institution must be transferred to Cedarville University and posted on the student's Cedarville University transcript by the end of the first full week of classes in order to remain in the nursing course for which the prerequisite was required. If a prerequisite course is not posted on the student's Cedarville University transcript by this deadline, the student will be required to withdraw from that nursing course immediately. Transfer courses are shown as credit (K) on the transcript and do not affect GPA.
- 6. Students must meet all clinical objectives and fulfill all other clinical requirements.

Nonacademic Requirements

Students must practice the characteristics of empathy, integrity, respect, self-confidence, self-motivation, stewardship, teamwork, diplomacy, time management, dependability, and tolerance. Faculty reserves the right at any time to enact probation or remove students from the nursing major who exhibit unprofessional, immoral, illegal, or unethical behavior, or who compromise the safety of self or others.

Technical Standards Requirements

Students must demonstrate ability to follow technical standards: physical/neurological, motor, communication, judgement, and social/behavioral/emotional coping skills.*

*Fully described in the nursing student handbook.

Probation

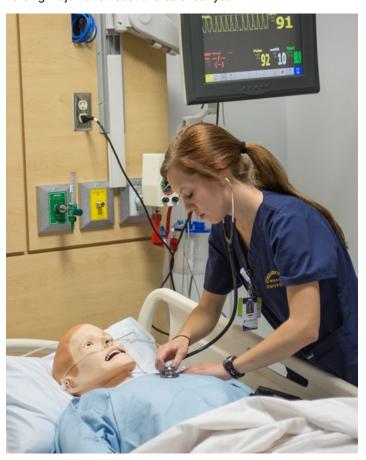
When a student fails to meet one or more of the specified academic, nonacademic, or technical criteria the status of that student will be changed to probation.

Removal From Nursing Major

A student will be removed from the major for the following reasons:

- Failure to meet academic, nonacademic, technical, or clinical requirements while on probation.
- Demonstration of behavior that is not consistent with professional standards concerning health, safety, ethics, and behavior.
- Second 2000-level or higher nursing course failure or violation of nonacademic/technical requirements.

Readmission when a student has been removed from the nursing major may be considered only under extreme circumstance and provided the student has been out of the nursing major for at least one calendar year.



School of Nursing Graduation

Graduation

Candidates for the B.S.N. degree must complete the required 129 semester hours, earn a grade of C- or better in all nursing courses, maintain a GPA of 2.5 or higher, register for the NCLEX-RN examination, apply for state licensure, and meet University requirements for graduation.

Financial Aid

Federal Nursing Student Loans are available to qualified students who have been admitted to the nursing program. Some scholarships are available through endowments, although primarily offered to nursing upperclassmen. Information is available at **cedarville.edu/finaid**.

Programs of Study

Cedarville's nursing program leads to a Bachelor of Science in Nursing (B.S.N.) degree. Nursing students may also elect to earn a minor in cross-cultural nursing.

Cocurricular Opportunities Student Nurses Association (SNA)

The Student Nurses Association promotes spiritual growth and professional development for nurses and service for the community. Membership is open to all nursing students.

Alpha lota Alpha (AIA) Men in Nursing

The vision and mission of AIA is to have a Christlike influence on the nursing profession and to mentor male nursing students who desire to live and practice nursing guided by Christ's example. All male nursing students are eligible to enroll.

Technical Resources

- State-of-the-art high fidelity simulation center
- · Moderate fidelity clinical nursing and practice centers
- · Eight-unit outpatient clinical center

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

At Cedarville since 1997.

Angelia Mickle, Dean. Associate Professor of Nursing. Education. A.A.S. Nursing, Central Carolina Community College, 1991; B.S.N., Indiana Wesleyan University, 1999; M.S.N., Indiana Wesleyan University, 2008. D.N.P., University of Tennessee, 2013. At Cedarville since 2008.

Suzanne Lefever, Assistant Dean, Director of Undergraduate Programs. Associate Professor of Nursing. Education: B.S.N., Goshen College, 1983; M.S., SUNY-Stony Brook Neonatal Nurse Practitioner Program, 2004. At Cedarville since 2001.

Sharon Christman, Assistant Dean, Director of MSN Graduate Programs, Professor of Nursing; Joint Professor of Pharmacy. Education: B.S.N., Cedarville University, 1992; M.S., The Ohio State University, 1995; A.N.P., The Ohio State University, 2000; Ph.D., The Ohio State University, 2003. At Cedarville since 1997. Carolyn Barnett, Assistant Professor of Nursing. Education: L.P.N., Lewis Wilson Technological Center, 1979; B.S.N., Cedarville University, 1986; M.S.N., University of Phoenix, 2006.

Linda Cave, Assistant Professor of Nursing. Education: B.S., University of Northern Colorado, 1981; M.S., University of Colorado Health Sciences Center, 1983. At Cedarville since 1989. Elizabeth Delaney, Assistant Professor of Nursing. Education: B.S. N., Wright State University, 1988; M.S., Wright State University, 1992. At Cedarville since 2012.

Clifford Fawcett III, Assistant Professor of Nursing. *Education:* B.S.N., Cedarville University, 1988; M.Ed., University of Virginia, 1989; M.S.N., University of Delaware, 1997. At Cedarville since 2010.

Connie Ford, Associate Professor of Nursing; Joint Associate Professor of Pharmacy. *Education:* Diploma, Bethesda Hospital School of Nursing, 1977; B.S.N., Xavier University, 1989; M.S., Wright State University, 1992; F.N.P., Wright State University, 2003. At Cedarville since 1993.

Kimberly Higginbotham, Assistant Professor of Nursing. *Education:* B.S.N., Cedarville University, 1993; M.S.N., University of Virginia, 2000. At Cedarville since 2000.

Chu-Yu Huang, Professor of Nursing. *Education:* A.D.N., Foo Yin Nursing Junior College of Nursing, Taiwan, 1989; B.S.N., University of Dubuque, 1992; M.S., The Ohio State University, 1995; Ph.D., The Ohio State University, 2001. At Cedarville since 2001.

Carrie Keib, Associate Professor of Nursing. *Education:* B.S.N., Liberty University, 1999; M.S., The Ohio State University, 2005; Ph.D., The Ohio State University, 2007. At Cedarville since 2007. Kristine Kidder, Instructor of Nursing. *Education:* B.S.N., Cedarville University, 1996; M.S.N., Nurse Educator, Liberty University, 2016. At Cedarville since 2003.

Mark Klimek, Associate Professor of Nursing. *Education:* A.A.S. Nursing, Youngstown State University, 1974; B.S.N., University of Virginia, 1977; M.S.N., Wayne State University, 1979; graduate study, Wayne State University, 1987. At Cedarville since 1983. **Janet Neal**, Associate Professor of Nursing. *Education:* B.S.N., Austin Peay State University, 1983; M.S.N., Indiana Wesleyan University, 2008; D.N.P., University of Cincinnati, 2014. At Cedarville since 2008.

Rachel Parrill, Associate Professor of Nursing. *Education:* B.S.N., Cedarville University, 1997; M.S., Wright State University, 2006; Ph.D., Walden University, 2011. At Cedarville since 2005.

Peter Savard, Assistant Professor of Nursing. *Education:* B.S.N., Cedarville University, 1990; M.S., Wright State University, 2015. At Cedarville since 2015.

Lisa Smithers, Assistant Professor of Nursing. *Education:* B.S., Wright State University, 1991; B.S.N., Wright State University, 2000; M.S.N., The Ohio State University, 2004. At Cedarville since 2016.

School of Nursing Clinical Activity Information

Rebecca Wagner, Assistant Professor of Nursing. Education: B.S.N., University of Delaware, 1977; M.S.N., University of Phoenix, 2007; Ed.D, Liberty University, 2014. At Cedarville since 2014.

Nursing Laboratories

Karen Callan, Director of Nursing Laboratory Programs and Facilities. Education: B.S.N., Cedarville University, 1985. At Cedarville since 1992.

Emeriti

Irene Alyn, Distinguished Professor Emerita of Nursing. Education: B.A., Taylor University, 1962; Diploma, Cook County School of Nursing, 1962; M.S.N., University of Illinois, 1965; Ph.D., University of Illinois, 1972. At Cedarville 1981-2007.

Lois Baker, Senior Professor Emerita of Nursing, Education: Diploma, Blodgett Memorial Medical Center School of Nursing, 1974; B.R.E., Grand Rapids Baptist College, 1975; B.S.N., Nazareth College, 1982; M.S.N., University of Cincinnati, 1984; Ph.D., Wayne State University, 1991. At Cedarville 1984-2014. Carolyn Carlson, Distinguished Professor Emerita of Nursing. Education: B.S., Capital University, 1959; M.S., U.C.L.A., 1962; M.A., University of Colorado, 1972; Ph.D., University of Colorado, 1972. At Cedarville 1988-2007.

Janet Conway, Senior Professor Emerita of Nursing. Education: Diploma, Hackley Hospital School of Nursing, 1965; B.S.N., Coe College, 1976; M.S., University of Arizona, 1979; Specialist in Clinical Nursing, Indiana University, 1982; Ph.D., University of Texas, 1988. At Cedarville 1982-2013.

Judith Shrubsole, Associate Professor Emerita of Nursing Education: Diploma, Hamilton Civic Hospital School of Nursing, 1965; Diploma, University of Western Ontario, 1967; B.Sc.N., University of Western Ontario, 1968; M.S., D'Youville College, 1992; Ph.D., Rush University, 2003. At Cedarville 1992-2010.



Clinical Activity Information Facilities

All clinical activity is conducted under the supervision of the Cedarville University School of Nursing faculty. The program utilizes a number of community resources including public and private, large and small hospitals, health departments, mental health services, rehabilitation centers, clinics, homes for the aged, and physician's offices.

Clinical Requirements

Students are required to have a background check, current CPR/BLS certification, uniforms, equipment, photo identification, and transportation for clinical experiences. Nursing students are required to furnish proof of private health insurance.

Health Information

Prior to clinical nursing courses, students must provide documentation of:

- a) Complete physical examination
- b) Childhood immunizations
- c) Negative 2-step Mantoux test followed by annual Tb testing
- Tetanus booster or Tdap (within last 10 years)
- e) Hepatitis B vaccine series and Hepatitis B titer
- f) Influenza vaccine
- g) Current health insurance coverage

Additional Program Expenses (estimated)

Year 1 and 2: \$500-\$2000 (laptop computer (required), uniforms, clinical equipment, CPR/BLS certification, immunizations, physical exam, background check, transportation expenses)

Year 3: \$350-\$650 (immunization updates, CPR recertification, transportation expenses)

Year 4: \$800-\$1200 (Licensure application, NCLEX-RN registration, background check, immunizations updates, transportation expenses)



School of Nursing Nursing Course Requirements

Nursing Course Requirements

In addition to completing the general education requirements, nursing majors must take the following courses. These requirements are divided into two segments, support cognate requirements and nursing major requirements.

The support cognate requirements, many of which satisfy general education requirements, include:

| CHEM-1000 Principles of Chemistry | 5 |
|---|---|
| GBIO-2010 Human Anatomy and Physiology I | |
| GBIO-2015 Human Anatomy and Physiology II | |
| GBIO-2210 Principles of Microbiology | |
| PYCH-1600 General Psychology | |
| PYCH-2610 Statistics | |

The nursing major requirements involve 71 semester hours including:

| NSG-1000 Member of Nursing Profession | 2 |
|---|---|
| NSG-1050 Health Promotion and Wellness | |
| NSG-1055 Experiences in Health Promotion | 1 |
| NSG-2000 Roles in Disease Prevention | 4 |
| NSG-2050 Roles in Disease Management | 4 |
| NSG-3000 Care of III Adults | 6 |
| NSG-3010 Nursing Care of Women and Newborns | 6 |
| NSG-3030 Care of Children | 6 |
| NSG-3050 Behavioral and Mental 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 | 6 |
| *NSG-4950 Seminar in Nursing | 3 |
| *Capstone Course | |

Capstone Course

Nursing Major Curriculum Summary

| rianonig major o arrio arani o arriminar y | |
|--|-----|
| Proficiency Requirements | 0–5 |
| Other General Education Requirements | 35 |
| Nursing Major Requirements | 71 |
| Required Cognates | |
| Total (minimum, not including proficiency) | |
| 31 | |

Minor

Cross-Cultural Nursing Minor

Students anticipating service in intercultural or international settings may choose an emphasis in cross-cultural nursing.

Course requirements involve an additional 16 semester hours selected from:

| BTPA-2260 World Religions | 3 |
|--|---|
| One course selected from | |
| ANTH-1800 Cultural Anthropology3 | |
| BTAT-3470 Cross-Cultural Ministry3 | |
| PYCH-1800 Cross-Cultural Psychology 3 | |
| One course selected from | 3 |
| BTAT-2000 Introduction to Mission | , |
| BTAT-2400 Personal Evangelism3 | , |
| BTAT-3410 Discipleship3 | , |
| BTAT-3450 Contemporary World Missions 3 | |
| BTAT-3510 Introduction to Urban Ministry3 | , |
| 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 Study1-2 | |
| *Crosslisted as an honor's seminar. | |

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

Suggested Four-Year Curriculum for a **Major in Nursing**

| First year: BTGE-1720 Spiritual Formation 3 BTGE-2730 Old Testament Literature 3 CHEM-1000 Principles of Chemistry 5 COM-1100 Fundamentals of Speech 3 ENG-1400 Composition 3 GBIO-2010 Human Anatomy and Physiology I 4 HUM-1400 Introduction to the Humanities 3 NSG-1000 Member of Nursing Profession 2 NSG-1050 Health Promotion and Wellness 3 NSG-1055 Experiences in Health Promotion 1 PYCH-1600 General Psychology 3 Total 33 |
|--|
| Second year: BTGE-2740 New Testament Literature 3 BTGE-3755 Theology I 3 GBIO-2015 Human Anatomy and Physiology II 4 GBIO-2210 Principles of Microbiology 4 GSS-1100 Politics and American Culture 3 NSG-2000 Roles in Disease Prevention 4 NSG-2050 Roles in Disease Management 4 NSG-3110 Pharmacology 3 PEF-1990 Physical Activity and the Christian Life 2 PYCH-2610 Statistics 3 Total 33 |
| Third year: BTGE-3765 Theology II 3 LIT-2XXX Literature Elective 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-3930 Nursing Research and Evidence-Based Practice 3 Total 33 |
| Fourth year: 6 NSG-4000 Care of Populations 6 NSG-4020 Nursing Leadership/Management 6 NSG-4030 Complex Care Management 6 NSG-4060 Transition Into Practice 6 NSG-4950 Seminar in Nursing 3 History Elective 3 Total 30 |



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School of Pharmacy Admission/Preferred Admission

Admission/Preferred Admission

The Bachelor of Science in Pharmaceutical Sciences (B.S.P.S.) degree curriculum includes courses in the professional Doctor of Pharmacy (Pharm.D.) degree curriculum, which are only accessible to students who have been admitted to the Pharm.D. program (unless an exception is granted by the School of Pharmacy). The B.S.P.S. degree curriculum includes all of the courses required for admission to the Cedarville University Doctor of Pharmacy program. The final course in the B.S.P.S. degree curriculum is typically completed during the fall semester of the second professional (P2) year in the Doctor of Pharmacy program.

Students intending to pursue a career in pharmacy - thus, pursue a Pharm.D. degree – should choose pharmaceutical sciences as their major. NOTE: Failure to be granted admission to the Pharm.D. program (which would occur during the academic year prior to the 1st professional (P1) year in the Pharm.D. program), or be granted an exception to complete the B.S.P.S. by the School of Pharmacy in the absence of such admission, will result in an inability to complete this degree.

Undergraduate students at Cedarville University in the pharmaceutical sciences major may compete for Preferred Admission to the Pharm.D. program as early as their senior year in high school and continuing throughout their undergraduate studies. Preferred Admission is awarded to a select number of students who have demonstrated the aptitudes and skills necessary for successful pursuit of a career in pharmacy. This status reserves a seat for the student in the class size-limited Pharm.D. program, associated with a specific School-established start date in the Pharm.D. program. Students with Preferred Admission status are exempt from competing against other applicants for a seat in the program. The granting of Preferred Admission status involves two steps.

First, students obtain admission to the University. Second, students compete for preferred admission to the School of Pharmacy. That competition begins with an invitation by the Pharmacy Admissions Committee to apply for Preferred Admission to the School of Pharmacy. Those invitations are based upon the following criteria:

- 1. Declared interest in pharmacy
- 2. Academic curriculum
- 3. Cumulative GPA (high school or collegiate)
- 4. ACT composite and subscores of at least 23 (or SAT subscores of 530 or higher)(for high school students)

The Pharmacy Admissions Committee begins inviting students to apply by the first week of October. The application process involves scheduling an interview with the Pharmacy Admissions Committee. Interviews typically begin in mid-November and continue until all Preferred Admission seats are filled. Final selection is based upon performance in the interview and on the essay.

Students who do not wish to compete for preferred admission or who do not qualify for preferred admission as a new student may still take the B.S.P.S. curriculum and apply for Preferred Admission, or make direct application to the Pharm.D. program, later in their academic journey. The Admissions Committee considers applications of undergraduate students for Preferred Admission at the end of each academic year.

Preferred Admission Continuation Requirements

In order to continue with Preferred Admission status, students must meet the following requirements:

 Maintain a cumulative undergraduate GPA of at least 3.00. For purposes of Preferred Admission, the School of Pharmacy calculates the GPA using a courserepeat and grade-replacement policy that considers the repeated course grade in place of the original course grade, regardless of when such occurred during the undergraduate experience (i.e., any undergraduate course may be repeated for this purpose). Note, this Preferred Admission policy does not affect the student's official transcript – the policies for which are established and managed by the Registrar.

Students who do not achieve a 3.00 GPA according to these policies will be subject to the following actions related to their Preferred Admission status:

- Conditional Status: Applied to student failing to achieve a 3.00 cumulative GPA after their first undergraduate semester at Cedarville University.
- Probation Status: Applied to student failing to achieve a 3.00 cumulative GPA after their first undergraduate year at Cedarville University.
- Loss of Preferred Admission Status: Occurs if student fails to achieve a 3.00 cumulative GPA after two years of undergraduate study at Cedarville University.

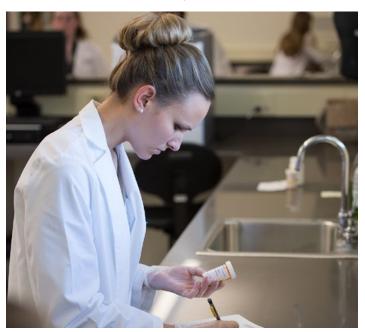
Note: All status decisions are at the discretion of the Admissions Committee; students who do not hold Preferred Admission status may continue to enroll in the B.S.P.S. degree curriculum with an aim toward regaining Preferred Admission status and/or applying directly to the Pharm.D. program at the appropriate time.

2. Earn a minimum grade of "C" in all courses identified as prerequisites for admission to the Pharm.D. program (see Graduate and Adult Programs Academic Catalog). Students may repeat any course for which a "C" was not earned. Exceptions to this requirement are applied to select two-semester sequence courses (General Chemistry, Organic Chemistry, Human Structure and Function) in which students may continue with a C- in either semester of the sequence as long as they earn a grade of at least C+ in the complementary course of the sequence.

All prerequisite and application requirements for the Pharm.D. program are found in the Graduate and Adult Programs Academic Catalog.

Financial Aid

B.S.P.S. students benefit from all scholarship programs available to other Cedarville University students. For students continuing into the professional Pharm.D. program (completing their B.S.P.S. degree as part of their professional studies) after three years of undergraduate study at Cedarville University, the University aid will continue to be available through the first professional year.



School of Pharmacy Career Opportunities

Career Opportunities

The demand for pharmacists appears to be strong for many years to come. Current shortages as well as changes and advances in science and health care will create abundant opportunities for pharmacy graduates. These opportunities may include:

- Clinical specialist in cardiology, oncology, nutrition, infectious disease, diabetes mellitus, psychiatry, etc.
- · Community pharmacist
- · Compounding pharmacist
- Consultant pharmacist in geriatrics, palliative care, etc.
- Hospital pharmacist
- Long-term care pharmacist
- · Managed care pharmacist
- · Nuclear pharmacist
- · Pediatrics pharmacist

Faculty

Marc Sweeney, Dean; 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 Bates, Associate Dean; Associate Professor of Pharmacy Practice. Education: B.S., Ferris State University, 1991; Pharm.D., Ferris State University, 2007; At Cedarville since 2016.

Aleda Chen, Assistant Dean. Assistant Professor of Pharmacy Practice. Education: Pharm.D., Ohio Northern University, 2006; M.S., Purdue University, 2009; Ph.D., Purdue University, 2011. At Cedarville since 2011.

Department of Pharmacy Practice

Douglas Anderson, Chair; Professor of Pharmacy Practice. Education: B.S., Pharmacy, University of Oklahoma, 1988; Pharm.D., University of Oklahoma, 1992. At Cedarville since 2009. Miriam Ansong, Director, Drug Information Center; Associate Professor of Pharmacy Practice. Education: Pharm.D., Howard University College of Pharmacy, 1998. At Cedarville since 2012. John Ballentine, Associate Professor of Pharmacy Practice. Education: B.S., Pharmacy, University of Houston, 1989; Pharm.D., University of Kentucky, 1991. At Cedarville since 2011. Ginger Cameron, Assistant Professor of Pharmacy Practice. Education: B.A., Union University, 1996; M.A., Central Michigan University, 2003; M.Sc., Walden University, 2008; Ph.D., Walden University, 2012. At Cedarville since 2013.

Justin Cole, Assistant Professor of Pharmacy Practice. *Education:* Pharm.D., Ohio Northern University, 2006. At Cedarville since 2016.

Juanita Draime, Instructor of Pharmacy. *Education:* Pharm.D., Cedarville University, 2016. At Cedarville since 2016.

Marty Eng, Associate Professor of Pharmacy Practice. *Education:* Pharm.D., University of Maryland, Baltimore School of Pharmacy, 2000. At Cedarville since 2012.

Thad Franz, *Vice Chair of Experiential Programs*. Assistant Professor of Pharmacy Practice. *Education:* B.S., Pharmaceutical Science, The Ohio State University, 2003; Pharm.D., The Ohio State University, 2005. At Cedarville since 2012.

Melody Hartzler, Associate Professor of Pharmacy Practice. *Education:* Pharm.D., Ohio Northern University, 2009. At Cedarville since 2010.

Jeff Huston, *Interim Director of Experiential Programs*; Instructor of Pharmacy Practice. *Education*: B.S., Pharmacy, Ohio Northern University, 1990. At Cedarville since 2010.

Zach Jenkins, Assistant Professor of Pharmacy Practice. *Education:* Pharm.D., Northeast Ohio Medical University. At Cedarville since 2013.

Emily Laswell, Assistant Professor of Pharmacy Practice. *Education:* Pharm.D., Ohio Northern University, 2012. At Cedarville since 2013.

Chelsea Manion, Assistant Professor of Pharmacy Practice. *Education:* Pharm.D., Ohio Northern University, 2013. At Cedarville since 2014.

Brenda Pahl, Assistant Professor of Pharmacy Practice. *Education:* B.S., Ohio Northern University, 1991; Pharm.D., The Ohio State University, 2007. At Cedarville since 2015.

Mark Pinkerton, Assistant Professor of Pharmacy Practice. *Education:* B.A. in chemistry, Cedarville University, 1983; M.S. in chemistry, Miami University, 1985; M.D., Medical College of Ohio at Toledo, 1991. At Cedarville since 2014.

Andrew Straw, Assistant Professor of Pharmacy Practice. *Education*: Pharm.D., Ohio Northern University, 2014. At Cedarville since 2015.

Dennis Sullivan, Professor of Pharmacy Practice; Director of Center for Bioethics; Chair of Institutional Review Board. *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

Department of Pharmaceutical Sciences

Rebecca Gryka, Chair; Associate Professor of Pharmaceutical Sciences. Education: B.A., University of California San Diego, 1974; Pharm.D., University of Southern California, 1980; Ph.D., University of Southern California, 1984; Postdoctoral Fellow, University of California Riverside, 1985–86. At Cedarville since 2010.

Samson Amos, Associate Professor of Pharmaceutical Sciences. *Education:* B.Pharm., Ahmadu Bello University, Nigeria, 1989; M.Sc., University of Jos, Nigeria, 1998; Ph.D., University of Nigeria, 2002. At Cedarville 2013.

Melissa Beck, Associate Professor of Pharmaceutical Sciences. *Education:* B.S., Ashland University, 1995; Ph.D., University of Michigan, 2001. At Cedarville since 2013.

Elisha Injeti, Associate Professor of Pharmaceutical Sciences. *Education:* B.S., Andhra University, 1995; M.S., Andhra University, 1997; Post Baccalaureate Certificate, Biomedical and Clinical Ethics, Loma Linda University, 2002; Ph.D., Loma Linda University, 2008. At Cedarville since 2009.

Rocco Rotello, Associate Professor of Pharmaceutical Sciences. *Education:* B.A., Chadron State College, 1983; M.S., University of Nebraska Medical School, 1985; Ph.D., University of Colorado Medical School, 1991; Postdoctoral Fellow, Harvard Medical School, 1991–94. At Cedarville since 2011.

Denise Simpson, Assistant Professor of Pharmaceutical Sciences. *Education:* B.S., University of the West Indies, 1999; Ph.D., University of the West Indies, 2005; Postdoctoral Fellow, Department of Medicinal Chemistry, University of Iowa/University of Kansas, 2006–2008; Postdoctoral Fellow, Specialized Chemistry Center, University of Kansas, 2008–2010. At Cedarville since 2012.

School of Pharmacy School of Pharmacy

School of Pharmacy Mission

Cedarville University is a Christ-centered learning community equipping students for lifelong leadership and service through an education marked by excellence and grounded in biblical truth. The School of Pharmacy develops exceptional pharmacy practitioners focused on meeting the physical, emotional, and spiritual needs of patients through servant leadership. The school pursues innovative, ethical solutions to health-related issues in diverse populations through collaborative teaching, research, and practice.

Values

Character—Regarding character as the foundation for appropriate decisions, compassionate care, and clear perspectives, the school considers the development of godly character as paramount in the lives of its students.

Global Focus—The school embraces a global perspective to its impact, endeavoring to equip graduates for service locally, regionally, nationally, and internationally, maintaining a particular sensitivity to the underserved.

Ethics—The school advances behavior, practice, and research consistent with the truth of the Scriptures and example of Christ.

Collaboration—Though structured into distinct administrative and academic units, the school pursues collaborative relationships and activities within the school, among other units of the university, and with other organizations outside of the university, exemplifying to students the value and effectiveness of working together to achieve worthwhile goals.

Innovation—The school promotes and celebrates the discovery of creative solutions and approaches to issues and problems that challenge the delivery of effective patient care. Recognizing continuous innovation as a quality found in effective organizations today, the school actively integrates contemporary topics and practices into the curriculum.

Leadership Development—Regarding influence as the essence of leadership and desiring our graduates to be influential in their personal and professional lives, the school pursues opportunites to help its students develop and apply their leadership skills.



Regional Accreditation

The University is accredited by the Higher Learning Commission. The Higher Learning Commission has approved the University to award the Doctor of Pharmacy degree.

Cedarville University School of Pharmacy's Doctor of Pharmacy program is accredited by the Accreditation Council for Pharmacy Education, 135 South LaSalle Street, Suite 4100, Chicago, IL 60503, 312/664-3575; FAX 312/664-4652, web site acpe-accredit. org.

Accreditation Disclosure Explanation

The Accreditation Council for Pharmacy Education (ACPE) accredits Doctor of Pharmacy programs offered by Colleges and Schools of Pharmacy in the United States and selected non-U.S. sites. For a Doctor of Pharmacy program offered by a new College or School of Pharmacy, ACPE accreditation generally involves three steps: Precandidate accreditation status, Candidate accreditation status, and Full accreditation status. Precandidate accreditation status denotes a developmental program that is expected to mature in accord with stated plans and within a defined time period. Precandidate accreditation status is awarded to a new program of a College or School of Pharmacy that has not yet enrolled students in the professional program and authorizes the program to admit its first class. Candidate accreditation status is awarded to a Doctor of Pharmacy program that has students enrolled but has not yet had a graduating class. Full accreditation status is awarded to a program that has met all ACPE standards for accreditation and has graduated its first class. Graduates of a class designated as having Candidate accreditation status have the same rights and privileges of those graduates from a fully accredited program. ACPE conveys its decisions to the various boards of pharmacy and makes recommendations in accord with its decisions. It should be noted, however, that decisions concerning eligibility for licensure by examination or reciprocity reside with the respective state boards of pharmacy in accordance with their state statutes and administrative rules.

The Accreditation Council for Pharmacy Education (ACPE) Board of Directors reviewed the Doctor of Pharmacy program of the Cedarville University School of Pharmacy for purposes of advancing the program from Candidate status to Accredited status at its June 23–25, 2016, meeting. This review was based upon due consideration of the Evaluation Team Report dated March 15–17, 2016, the School's self-study, and other communications received from the institution. Following discussion of the program, it was the decision of the Board that Accredited Status be granted to the Doctor of Pharmacy program. The accreditation term granted for the Doctor of Pharmacy program extends until June 30, 2018, which is the customary two-year term for a new program receiving Accredited status.

For an explanation of ACPE accreditation process, consult the office of the Dean (937-766-7480) or ACPE (acpe-accredit.org). This document will be regularly updated to reflect any changes in status.

School of Pharmacy Bachelor of Science in Pharmaceutical Sciences

Bachelor of Science in Pharmaceutical Sciences

This degree serves as the foundation for advanced study in pharmacy or the pharmaceutical sciences as well as career opportunities in pharmacy and the pharmaceutical industry.

| Course requirements involve 126–127 semester hours including: Biblical Education1 | _ |
|---|---|
| BTGE-1720 Spiritual Formation | , |
| BTGE-1720 Spiritual Formation | |
| BTGE-2740 New Testament Literature | |
| BTGE-3755 Theology I | |
| BTGE-3765 Theology II | |
| Communication | a |
| COM-1100 Fundamentals of Speech | • |
| ENG-1400 Composition | |
| Humanities | 9 |
| HUM-1400 Introduction to the Humanities | _ |
| LIT-2XXX Literature Elective | |
| Humanities Elective | |
| Physical Education | 2 |
| PEF-1990 Physical Activity and the Christian Life | |
| Science and Mathematics48-49 | 9 |
| BIO-1110 Introduction to Biology4 | |
| BIO-2210 Microbiology4 | |
| BIO-2250 Cell Biology4 | |
| BIO-3450, 3460 Human Structure and Function I and II 8 | |
| CHEM-1110, 1120 General Chemistry I and II8 | |
| CHEM-3510, 3520 Organic Chemistry I and II8 | |
| GBIO-3350 Principles of Immunology | |
| MATH-1710 Calculus I5 | |
| PHYS-1010 College Physics I5 | |
| (or PHYS-2110 General Physics I4) | |
| Social Sciences and History | 9 |
| GSS-1100 Politics and American Culture | |
| History Elective3 | |
| Social Science/Global Awareness Elective | |
| Pharmaceutical Sciences | 7 |
| PPHR-1011 Profession of Pharmacy—Introduction to Public | |
| Health | |
| | |
| PPHR-2013 Profession of Pharmacy—Careers | |
| PPHR-3200 Pharmacy Calculations2 | |
| PPHR-3300 Biostatistics in Pharmacy and Medicine | |
| *PHAR-6111 Research Design and Methodology3 | |
| *PHAR-6130 Medicinal Biochemistry4 | |
| *PHAR-6131 Pharmaceutical Sciences | |
| *PHAR-6132 Integrated Medicinal Chemistry | |
| and Pharmacology5 | |
| *PHAR-6134 Pharmacokinetics and Biopharmaceutics 4 | |
| *PHAR-6137 Immunology, Immunotheraphy, and | |
| Pharmacogenomics4 | |
| *PHAR-6240 Applied Biomedical Sciences Module | |
| *The advanced professional pharmacy course descriptions can be found in the | |
| graduate catalog. | |
| | |
| Pharmaceutical Sciences Major Curriculum Summary | |
| Proficiency Requirements0- | 5 |
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| Proficiency Requirements | 0–5 |
|--|-----|
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| Pharmaceutical Sciences Major Requirements | |
| Cognate requirements | |
| General Electives | 1–2 |
| 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 Pharmaceutical Sciences - B.S.

| DTOE 1700 Chivitual Formation | |
|--|--|
| BTGE-1720 Spiritual Formation3 | |
| BTGE-2730 Old Testament Literature3 | |
| BIO-1110 Introduction to Biology4 | |
| CHEM-1110, 1120 General Chemistry8 | |
| COM-1100 Fundamentals of Speech | |
| ENG-1400 Composition3 | |
| MATH-1710 Calculus I5 | |
| PEF-1990 Physical Activity and the Christian Life2 | |
| PPHR-2013, 2014 Profession of Pharmacy-Careers2 | |
| Total | |
| | |
| Second year: | |
| BTGE-2740 New Testament Literature3 | |
| BTGE-3755 Theology I3 | |
| BIO-2250 Cell Biology4 | |
| CHEM-3510 Organic Chemistry I4 | |
| CHEM-3520 Organic Chemistry II4 | |
| GBIO-3350 Principles of Immunology3 | |
| HUM-1400 Introduction to the Humanities3 | |
| PPHR-1011, 1012 Profession of Pharmacy—Introduction to Public | |
| Health and History and Issues2 | |
| History Elective3 | |
| Social Science/Global Awareness Elective3 | |
| Total | |
| Third are an | |
| Third year: | |
| BTGE-3765 Theology II | |
| | |
| BIO-2210 Microbiology4 | |
| BIO-3450, 3460 Human Structure and Function I and II8 | |
| BIO-3450, 3460 Human Structure and Function I and II | |
| BIO-3450, 3460 Human Structure and Function I and II | |
| BIO-3450, 3460 Human Structure and Function I and II | |
| BIO-3450, 3460 Human Structure and Function I and II | |
| BIO-3450, 3460 Human Structure and Function I and II | |
| BIO-3450, 3460 Human Structure and Function I and II | |
| BIO-3450, 3460 Human Structure and Function I and II 8 GSS-1100 Politics and American Culture 3 PHYS-1010 College Physics I 5 (or PHYS-2110 General Physics I 4) PPHR-3200 Pharmacy Calculations 2 PPHR-3300 Biostatistics in Pharmacy and Medicine 3 Humanities Elective 3 LIT-2XXX Literature Elective 3 | |
| BIO-3450, 3460 Human Structure and Function I and II 8 GSS-1100 Politics and American Culture 3 PHYS-1010 College Physics I 5 (or PHYS-2110 General Physics I 4) PPHR-3200 Pharmacy Calculations 2 PPHR-3300 Biostatistics in Pharmacy and Medicine 3 Humanities Elective 3 LIT-2XXX Literature Elective 3 Elective 1-2 | |
| BIO-3450, 3460 Human Structure and Function I and II 8 GSS-1100 Politics and American Culture 3 PHYS-1010 College Physics I 5 (or PHYS-2110 General Physics I 4) PPHR-3200 Pharmacy Calculations 2 PPHR-3300 Biostatistics in Pharmacy and Medicine 3 Humanities Elective 3 LIT-2XXX Literature Elective 3 | |
| BIO-3450, 3460 Human Structure and Function I and II 8 GSS-1100 Politics and American Culture 3 PHYS-1010 College Physics I 5 (or PHYS-2110 General Physics I 4) PPHR-3200 Pharmacy Calculations 2 PPHR-3300 Biostatistics in Pharmacy and Medicine 3 Humanities Elective 3 LIT-2XXX Literature Elective 3 Elective 1-2 Total 35 | |
| BIO-3450, 3460 Human Structure and Function I and II | |
| BIO-3450, 3460 Human Structure and Function I and II | |
| BIO-3450, 3460 Human Structure and Function I and II | |
| BIO-3450, 3460 Human Structure and Function I and II | |
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| BIO-3450, 3460 Human Structure and Function I and II | |
| BIO-3450, 3460 Human Structure and Function I and II | |
| BIO-3450, 3460 Human Structure and Function I and II | |

Note: The advanced professional pharmacy curriculum is described in the Graduate Catalog and available upon request from pharmacy admissions.





Department of Psychology

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Department of Psychology Mission Statement

Mission Statement

The Cedarville University Department of Psychology seeks to:

- Develop understanding of biblical content that has psychological impact and to investigate all psychological concepts in the light of scriptural truth.
- Provide an analysis of the person from physical, emotional, rational, and spiritual levels.
- Aid students in their personal adjustment to everyday life through an understanding of human behavior.
- Prepare students for graduate study in psychology and related areas.
- Train students desiring to use counseling in vocational ministry and in biblical counseling contexts.
- Introduce students to the work world through internships, Christian ministries, guest lecturers, and advisement.
- Provide courses in psychology necessary for teacher certification.

Personal Requirements

A psychology major or minor is one who is interested in learning about the holistic well-being of individuals, families, and human relationships in society with a reconciliatory goal (2 Cor. 5:18–20). Such knowledge is applicable personally, relationally, and corporately either in clinical or ministry settings.

Department Requirements

All psychology majors must obtain a cumulative 2.0 GPA or higher in their major for graduation.

Programs of Study

The Department of Psychology offers a Bachelor of Arts degree with a major or a minor in psychology. For those majoring in psychology, each student chooses at least one track of study from the following:

- · Child and Family
- · Comprehensive Counseling
- Cognitive Neuroscience
- Cross-Cultural Psychology
- Health Psychology and Addictions
- Research

The psychology program is particularly useful to students who wish to earn a minor field of study at Cedarville, earn a double major, or take a sequence of courses in preparation for graduate school.

Cocurricular Opportunities

Psychology majors have the opportunity to present their scholarly work and papers at various academic and professional venues. For example, students have presented at the Ohio Undergraduate Psychology Research Conference, Ohio Psychological Association Annual Conference, Christian Association for Psychological Studies International Conference, and Association for Psychological Science Annual Conference.

Students can join the academic organization Psi Kappa Theta (PKT), whose mission is to build unity in the psychology department and connect students to each other and their professors. They host educational and social events for students interested in psychology.

Technical Resources

Psychology students are able to conduct researches and data analyses using, for example, the Statistical Package for the Social Sciences (SPSS), biofeedback instruments and programs, psychological assessment inventories, and to engage in real or stimulated experiments and projects to enhance learning.



Career Opportunities

The Cedarville University Department of Psychology has a strong track record in seeing alumni placed in quality graduate psychology and counseling programs. In addition, graduates of the psychology major find ready placements in human service agencies after graduation. Careers pursued by psychology majors include:

- Author
- Behavior specialist M/R populations
- Chaplain
- Child therapist
- College counselor
- College professor
- Correctional institution counselor
- Counselor in local church
- Crisis pregnancy center director
- Dean of men/women
- Forensic psychologist
- Geriatric center counselor
- Guidance counselor

- Health psychologist in a hospital
- High school psychology teacher
- Industrial psychologist
- Marriage and family therapist
- Missions agency counselor
- Private practice
- Psychologist (clinical)
- School psychologist
- Social agency counselor
- · State hospital counselor
- Substance abuse counselor

Faculty

Luke Tse, *Chair*; Professor of Psychology. *Education:* B.A., Embry-Riddle Aeronautical University, 1991; M.Div., New Orleans Baptist Theological Seminary, 1995; Ph.D., New Orleans Baptist Theological Seminary, 2000. Licensed Professional Counselor (LPC); Licensed Independent Marriage and Family Therapist (LIMFT); National Certified Counselor (NCC). At Cedarville since 2001.

Department of Psychology Psychology

Kristin DeWitt: Associate Professor of Psychology. *Education*: B.A., Clearwater Christian College, 1987; M.A., Liberty University, 1992; M.A., Argosy University, Tampa, 2002; Psy.D., Argosy University, Tampa, 2005; Licensed Psychologist (FL). At Cedarville University since 2015.

Charles Dolph, Senior Professor of Psychology. *Education:* B.A., Cedarville University, 1974; M.Ed., Georgia State University, 1982; Ph.D., Georgia State University, 1982. Licensed Psychologist (OH). At Cedarville since 1979.

Michael Firmin, Professor of Psychology. *Education:* B.A., Calvary Bible College, 1983; M.A., Calvary Theological Seminary, 1985; M.S. and Ph.D., Bob Jones University, 1987, 1988; M.A., Marywood University, 1992; Ph.D., Syracuse University, 2000. National Certified Counselor (NCC); Licensed Psychologist (OH). At Cedarville since 1998.

Ruth Markham, Associate Professor of Psychology. Education:
B.A., Grace College, 1979; M.A., Ball State University, 1981;
Ed.S., Ball State University, 1982; Ed.D., Ball State University,
1987; Certified School Psychologist (OH). At Cedarville since 2011.
Di Wu, Assistant Professor of Psychology. Education: B.S., Beijing
Normal University, 1999; M.Ed., Beijing Normal University, 2002;
M.S., University of Illinois at Urbana-Champaign, 2004; M.A.,
University of Illinois at Urbana-Champaign, 2005; Ph.D., University
of Illinois at Urbana-Champaign, 2010. At Cedarville since 2011.
Felisha Younkin, Assistant Professor of Psychology. Education:
B.A. Miami University, 2007; M.S., The Ohio State University, 2010;
Ph.D., The Ohio State University, 2013; Licensed Independent
Marriage and Family Therapist (OH). At Cedarville since 2016.

Emeriti

Robert Abbas, Professor Emeritus of Psychology. *Education:* B.M., Northwestern College, 1959; B.A., Wartburg College, 1962; M.A., University of Northern Colorado, 1965; Ph.D., University of Missouri at Columbia, 1972. Licensed Psychologist (OH). At Cedarville since 1971.

Stanley Ballard, Professor Emeritus of Psychology. *Education:* Graduate, Moody Bible Institute, 1954; Th.B., Baptist Bible College, 1956; Th.M., Dallas Theological Seminary, 1964; M.S., North Texas State University, 1965; Ph.D., North Texas State University, 1971. At Cedarville from 1965–2001.

Milton Becknell, Professor of Psychology. Education: B.A., University of North Texas, 1973; B.S.N., Texas Christian University, 1977; M.S.N., University of Texas at Austin, 1980; Ph.D., University of Southern Mississippi, 1989. Diplomate, American Board of Professional Psychology in Clinical Health Psychology (ABPP); Registered Nurse (TX); Licensed Psychologist (OH). At Cedarville since 2004.

Chi-en Hwang, Professor Emerita of Psychology. *Education:* B.S., National Taiwan University, 1977; M.A., University of Iowa, 1980; Ph.D., University of Iowa, 1986. At Cedarville since 1991.

Psychology

The **psychology major** provides students with general exposure to the field of psychology in preparation for graduate study in psychology and related fields or a number of other human service positions.

Course requirements involve 42 semester credits of psychology core courses and an additional 12 semester hour track:

| Psychology Core Courses | 42 |
|--|----|
| PYCH-1600 General Psychology | |
| PYCH-2600 Human Development: Lifespan | |
| PYCH-2610 Statistics | 3 |
| PYCH-2640 Abnormal Psychology | 3 |
| PYCH-3610 History and Systems of Psychology | 3 |
| PYCH-3620 Psychology and Christianity | 3 |
| PYCH-3650 Learning and Memory | 3 |
| PYCH-3660 Professional Counseling | 3 |
| PYCH-3690 Social Psychology | 3 |
| PYCH-3730 Research Methods | 3 |
| PYCH-3900 Physiological Psychology | 3 |
| PYCH-4640 Psychology Comprehensive Review | 3 |
| *PYCH-4990 Psychology Internship | 3 |
| Professional Issues Block | 3 |
| PYCH-1000 Orientation to Psychology | 1 |
| PYCH-1010 Writing in APA | 1 |
| PYCH-1020 Graduate School and Career Preparation | 1 |
| *Canstone Course | |

*Capstone Course

| Select one of the following tracks | 12 |
|--|------------------|
| Comprehensive Counseling Track | |
| PYCH-3630 Testing and Measurement | 3 |
| PYCH-3670 Group Dynamics | |
| PYCH-3680 Counseling Couples and Families | 3 |
| PYCH-4400 Counseling Skills | |
| Health Psychology and Addictions Track | 12 |
| PYCH-3000 Addictions | 3 |
| PYCH-3380 Health Psychology | 3 |
| PYCH-3901 Medications and Behavior | 3 |
| PYCH-4950 Psychology Thesis | 3 |
| Cognitive Neuroscience Track | 12 |
| PYCH-3630 Testing and Measurement | 3 |
| PYCH-3760 Cognitive Neuroscience | 3 |
| PYCH-3901 Medications and Behavior | 3 |
| PYCH-4950 Psychology Thesis | |
| Child and Family Track | 12 |
| PYCH-3130 Intimate Relationships | 3 |
| PYCH-3680 Counseling Couples and Families | |
| PYCH-3701 Counseling Adolescents | |
| PYCH-4700 Counseling Children | |
| Research Track | |
| PYCH-3630 Testing and Measurement | |
| PYCH-3720 Psychology of Personality | |
| PYCH-3740 Qualitative Research | |
| PYCH-4950 Psychology Thesis | 3 |
| Cross-Cultural Psychology Track | |
| PYCH-1800 Cross-Cultural Psychology | 3 |
| PYCH-3740 Qualitative Research | |
| **Study abroad credits | |
| **Students must complete the required internship at an internation | onal site. It is |
| strongly recommended that students also minor in one of the lar | guage studies. |

Psychology Major Curriculum Summary

| rsychology Major Curriculum Summary | |
|--|-------|
| Proficiency Requirements | 0–5 |
| Other General Education Requirements | 45–53 |
| Psychology Major Requirements | 54 |
| Electives | 21–29 |
| 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

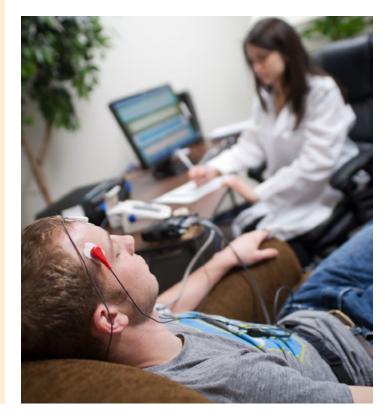
| First year: BTGE-1720 Spiritual Formation 3 COM-1100 Fundamentals of Speech 3 ENG-1400 Composition 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 PEF-1990 Physical Activity and the Christian Life 2 PYCH-1000 Orientation to Psychology 1 PYCH-1010 Writing in APA 1 PYCH-1020 Graduate School and Career Preparation 1 PYCH-1600 General Psychology 3 Biology Elective 3.5 History Elective 3 Physical Science Elective 3.5 Total 33 |
|---|
| Second year: BTGE-2730 Old Testament Literature 3 BTGE-2740 New Testament Literature 3 PYCH-2600 Human Development: Lifespan 3 PYCH-2610 Statistics 3 PYCH-2640 Abnormal Psychology 3 PYCH-3650 Learning and Memory 3 Humanities/Global Awareness Elective 3 LIT-2XXX Literature Elective 3 Track Requirements 6 Total 30 |
| Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 PYCH-3660 Professional Counseling 3 PYCH-3690 Social Psychology 3 PYCH-3730 Research Methods 3 PYCH-3900 Physiological Psychology 3 Track Requirements 6 Electives 8 Total 32 Fourth year: PYCH-3610 History and Systems of Psychology 3 PYCH-3620 Psychology and Christianity 3 PYCH-4640 Psychology Comprehensive Review 3 PYCH-4990 Psychology Internship 3 Electives 21 |

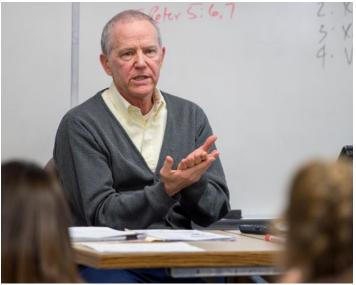
Minor

Psychology Minor

The **psychology minor** helps students who find that additional course work in psychology will support their major field of study. In particular, understanding people and human dynamics and applying the scientific method to problem-solving strengthens students' vocational preparation and ultimate job success. The psychology minor is constructed to allow maximum flexibility across a large cross section of majors at Cedarville University.

| Course requirements involve 18 semester hours including: | |
|--|----|
| PYCH-1600 General Psychology | 3 |
| PYCH-2640 Abnormal Psychology | 3 |
| Electives in psychology | 12 |







Department of Science and Mathematics

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Department of Science and Mathematics Mission Statement

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 and mathematics as part of the liberal arts core curriculum.
- Aid students in developing clear and orderly thinking processes through the use of the techniques of science and mathematics.
- Assist students in developing a biblical perspective of the sciences, which is essential in understanding controversial issues such as origin of life, biomedical ethics, and genetic engineering.
- Prepare students for graduate study or further professional study in the medical, environmental, or agricultural sciences.
- Prepare secondary teachers with a biblical perspective of science.
- Prepare students to serve in other science-related vocations.

Personal Requirements

Students who enjoy and excel in high school mathematics and science courses possess the greatest potential for success as graduates of this department. Therefore, to prepare for the mathematics and science curricula, students should take a college preparatory curriculum which includes:

- · Four units of English
- · Four units of mathematics (algebra, geometry, and trigonometry)
- Four units of science (physical science, biology, chemistry, and physics)
- Three units of social science
- Three units of a single foreign language
- Electives in computers may also be helpful.

Programs of Study

The Department of Science and Mathematics offers the following programs of study:

Bachelor of Arts (B.A.) in:

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

Bachelor of Science (B.S.) in:

- Biology
- Chemistry
- **Environmental Science**
- Forensic Science
- Geology
- Minors
 - Actuarial Science
 - Biology
 - **Bioethics** Chemistry

Earth Science

Biology

Physics

Mathematics

Molecular and Cellular

- Geology
- Mathematics
- **Physics**

Special Programs

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

Cocurricular Opportunities

- Chi Theta Pi (pre-health professions organization)
- Cedarville University Emergency Medical Services Squad
- Math Club
- Omega Theta Kappa (science education)
- Chemistry Club

Technical Resources

- A.D.A.M. Interactive Anatomy
- Biology and chemistry support
- Chem Sketch
- DPGraph 2001
- Laboratory simulations
- LaTeX
- Maple 16

- Matlab 7.20
- MicroCalc 7.0 laboratory
- Molecular Modeling Software
- RasMol
- SigmaPlot 10.0®
- Statistical analysis tools
- Spartan Student v5.0

Career Opportunities

Graduates of this department have gained admission to outstanding graduate and professional schools around the nation. Careers pursued by graduates include:

- Agricultural consultant
- Biologist
- Botanist
- Business actuary
- Chemist
- Chiropractor
- Environmental scientist
- Environmental toxicologist
- Health professional

- Laboratory technician
- Mathematician
- Pharmacist
- Physical therapist
- Physician
- **Physicist**
- Researcher
- Science educator
- Statistician
- Wildlife biologist

Faculty

Dennis Flentge, Chair; Senior Professor of Chemistry. Education: B.S., Texas Lutheran College, 1969; Ph.D., Texas A&M University, 1974; Postdoctoral Research Fellow, University of Florida, 1974-75; Texas A&M University, 1976; Summer Faculty Research Fellow, Wright-Patterson Air Force Base, 1981, 1982, 1984-1988, 1990, 1996, 1997, 2001; graduate study, University of Wisconsin, summer. 1984. At Cedarville since 1980.

Nathan Averbeck, Instructor of Mathematics. Education: B.S., Cedarville University, 2008; M.A., Eastern Illinois University, 2011; Ph.D. (ABD), Baylor University, in processes. At Cedarville since

Melissa Burns, Assistant Professor of Biology; Joint Assistant Professor of Pharmacy. Education: B.A., Cedarville University, 1996; M.D., Indiana University School of Medicine, 2000. At Cedarville since 2009.

Tracy Collins, Assistant Professor of Biology. Education: B.S., The Ohio State University, 2000; M.S., University of Dayton, 2005; Ph.D., University of Dayton, 2010. At Cedarville since 2015.

Darrin Frey, Professor of Mathematics. Education: B.S., University of Nebraska, 1989; Ph.D, University of Michigan, 1995. At Cedarville since 1997.

Mark Gathany, Associate 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.

Department of Science and Mathematics Faculty

Sarah Gilchrist, Assistant Professor of Mathematics. *Education:* B.S., Cedarville University, 2000; M.S., Wright State University, 2004; Ph.D., The Ohio State University, ABD. At Cedarville 2004–2009, 2012.

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.

Adam Hammett, Associate Professor of Mathematics. *Education:* B.S., Westmont College, 2001; Ph.D., The Ohio State University, 2007–2008. At Cedarville University since 2015

Nathan Hnatiuk, Associate Professor of Chemistry. *Education:* B.S., Houghton College, 2003; Ph.D., University of Connecticut, 2010. At Cedarville University since 2008

Ashley Holland, Assistant Professor of Mathematics. *Education:* B.S., Cedarville University, 2005; M.S., University of Michigan, 2008; Ph.D. University of Michigan, 2012. At Cedarville since 2013. **Geoffrey Holloway**, Associate Professor of Chemistry. *Education:* B.S., Ball State University, 1996; Ph.D., University of Illinois, 2001; Dreyfus Postdoctoral Fellow, 2001–2002, Eastern Illinois University. At Cedarville since 2012.

Aaron Hutchison, Associate Professor of Chemistry. *Education:* B.A., Cedarville University, 1998; Ph.D., University of Kentucky, 2007. At Cedarville University since 2003.

William Jones, Associate Professor of Biology. *Education:* B.A., Cedarville University, 1981; M.A., University of Akron, 1999; Ph.D., The Ohio State University. At Cedarville since 1999.

Heather Kuruvilla, Professor of Biology; Joint Professor of Pharmacy. *Education:* B.S., Houghton College, 1992; Ph.D., State University of New York at Buffalo, 1997. At Cedarville since 1997. Lindsey McCarty, Assistant Professor of Mathematics. *Education:* B.S., Cedarville University, 2005; M.S., University of Michigan, 2008; Ph.D., University of Michigan, 2012. At Cedarville since

Mark McClain, Dean of Graduate and Extended Learning Programs; 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.

Michael Mendel, Professor of Zoology. *Education:* B.S., Humboldt California State University, 1981; M.S., New Mexico State University, 1984; Ph.D., University of Maine, 1992. At Cedarville since 2016.

Douglas Miller, Professor of Chemistry. *Education:* B.S., University of Rochester, 1977; Ph.D., University of Colorado, 1981; postdoctoral research, University of Iowa, 1982; City University of New York, 1982–1984; Summer Faculty Research Fellow, NASA-Lewis Research Center, 1986–1990, 1992. At Cedarville since 1984.

Lin Pan, Assistant Professor of Physics. *Education.* B.Sc., Qingdao University, 1991; Ph.D., Michigan Technological University, 2008. At Cedarville since 2011.

Robert Paris, Assistant Professor of Biology. *Education:* B.S., Berea College, 1992; M.S., University of Tennessee, 1997; Ph.D., Virginia Polytechnic Institute and State University, 2000. At Cedarville since 2011.

Kaleb Pauley, Assistant Professor of Biology; Joint Assistant Professor of Pharmacy. *Education:* B.S., Marshall University, 2002; M.S., Marshall University, 2004: Ph.D., University of Florida, 2008; Postdoctoral Research Fellow, University of Florida, 2008–2011. At Cedarville since 2011.

Thomas Rice, Assistant Professor of Geology. *Education:* B.S., West Virginia University, 1978; M.E., Colorado School of Mines, 1987. At Cedarville since 2012.

Kevin Roper, Professor of Mathematics. *Education:* B.S., Southhampton University, England, 1979; M.Ed., University of South Carolina, 1988; M.A., University of Kentucky, 1992; Ph.D., University of Kentucky, 1995. At Cedarville 1995–97 and since 2000

Nina Sekerak, Assistant Professor of Chemistry. *Education*: B.S., Pensacola Christian College, 2009; Ph.D., University of Illinois, Urbana-Champaign, 2015. At Cedarville since 2015.

Andrew Wagers, Assistant Professor of Physics. *Education:* B.A., Berea College, 2002; M.S., Stephen F. Austin State University, 2005; Ph.D., Texas A&M University. At Cedarville since 2011. **John Whitmore**, 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 and since 2005.

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.

Emeriti

Donald Baumann, Senior Professor Emeritus of Biology and Chemistry. *Education:* B.S., Iowa State University, 1960; M.S., Iowa State University, 1962; Ph.D., Iowa State University, 1964. At Cedarville since 1964.

Edwin Braithwaite, Professor Emeritus of Mathematics. *Education:* B.A., Western Washington University, 1966; M.A., Western Washington University, 1968; Ph.D., University of Illinois, 1975. At Cedarville since 1976.

Leroy Eimers, Professor Emeritus of Physics and Mathematics. *Education:* B.S., Hobart College, 1963; M.S., Syracuse University, 1966; Ph.D., Syracuse University, 1970. At Cedarville since 1981. Larry Helmick, Senior Professor Emeritus of Chemistry. *Education:* B.S., Cedarville University, 1963; Ph.D., Ohio University, 1968; postdoctoral research, University of Florida, 1974–75 and summers of 1969, 1970, 1971; University of Illinois, summers of 1972, 1973, 1974; Summer Faculty Research Fellow, NASA-Lewis Research Center, 1980–1987 and 1990–1993, 1998; National Research Council Senior Research Fellow, 1988–1989; Wright Laboratory, Wright-Patterson Air Force Base, 1994–1997. At Cedarville since 1968.

Robert Schumacher, Associate Professor Emeritus of Mathematics. *Education:* B.S., Computer Science, United States Air Force Academy, 1970; M.S., Operations Research, Air Force Institute of Technology, 1979. At Cedarville since 1993. **John Silvius**, Senior Professor Emeritus of Biology. *Education:* B.A., Malone College, 1969; graduate study, Western Michigan University, 1970; Ph.D., West Virginia University, 1974; postdoctoral study, University of Illinois, 1974–76. At Cedarville since 1979. **Daniel Wetzel**, Professor Emeritus of Physics and Mathematics. *Education:* B.S., Morehead State College, 1955; M.S., University of Cincinnati, 1963; Ph.D., The Ohio State University, 1971. At Cedarville since 1963.

Technical Support Staff

Eric Johnson, Science Laboratory Technician. *Education:* B.A., Cedarville University, 1988. At Cedarville since 2003.

Department of Science and Mathematics Biology — Bachelor of Arts

Biology — Bachelor of Arts

The Bachelor of Arts degree with a major in biology provides general course background in the biological sciences.

| Course requirements involve 52 semester hours including: | |
|--|----|
| Biology Core Requirements | 36 |
| BIO-1110 Introduction to Biology | 4 |
| BIO-1120 General Zoology | 4 |
| BIO-2250 Cell Biology | 4 |
| BIO-2500 General Botany | 4 |
| BIO-2600 General Ecology | 3 |
| BIO-3300 Genetics | |
| BIO-3710 Biochemistry | 4 |
| *BIO-4800 Senior Seminar-Biology | |
| BIO-2XXX, 3XXX, 4XXX, ENVS-2XXX, or 3XXX | 8 |
| Departmental Requirements | 16 |
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| CHEM-3510 Organic Chemistry I | 4 |
| GMTH-1030 Precalculus | 4 |
| *Capstone Course | |

Biology Major (B.A.) Curriculum Summary

| biology major (b.A.) Curriculum Summary | |
|--|-------|
| Proficiency Requirements | 0–5 |
| Other General Education Requirements | 41–49 |
| Biology Major Requirements | 52 |
| Electives | 27–35 |
| Total (minimum, not including proficiency) | 128 |
| | |

Students preparing for medicine, dentistry, osteopathy, or any of the **health professions** should refer to page 191 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: |
|---|
| BTGE-1720 Spiritual Formation |
| BIO-1110 Introduction to Biology4 |
| BIO-1120 General Zoology4 |
| CHEM-1110, 1120 General Chemistry I and II |
| ENG-1400 Composition |
| GMTH-1030 Precalculus4 |
| PEF-1990 Physical Activity and the Christian Life |
| History Elective |
| Total |
| 10tal 31 |
| Second year: |
| BTGE-2730 Old Testament Literature3 |
| BTGE-2740 New Testament Literature |
| BIO-2250 Cell Biology4 |
| BIO-2500 General Botany4 |
| BIO-2600 General Ecology |
| CHEM-3510 Organic Chemistry I |
| COM-1100 Fundamentals of Speech |
| GSS-1100 Politics and American Culture |
| HUM-1400 Introduction to the Humanities |
| LIT-2XXX Literature Elective |
| Total |
| 10tal |
| Third year: |
| BTGÉ-3755 Theology I3 |
| BTGE-3765 Theology II |
| BIO-3300 Genetics4 |
| BIO-3710 Biochemistry4 |
| Biology Electives |
| Humanities Elective |
| Electives |
| Total |
| |
| Fourth year: |
| BIO-4800 Senior Seminar — Biology1 |
| Social Science/Global Awareness Elective3 |
| Electives |
| Total31 |

Department of Science and Mathematics Biology — Bachelor of Science

Biology — Bachelor of Science

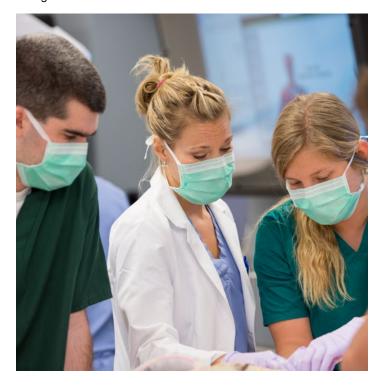
The Bachelor of Science degree with a major in biology prepares students for graduate study in the biological sciences by including the course requirements prescribed by many of the leading graduate-level biology degree programs in the nation. This major enhances the student's depth of knowledge in biology and increases the breadth of exposure to chemistry, mathematics, and physics.

| Biology Requirements | 46 |
|--|----|
| BIO-1110 Introduction to Biology | |
| BIO-1120 General Zoology | |
| BIO-2250 Cell Biology | |
| BIO-2500 General Botany | 4 |
| BIO-2600 General Ecology | |
| BIO-3300 Genetics | |
| BIO-3710 Biochemistry | |
| BIO-3800 Biological Research | |
| (Or BIO-3810 Biology Research Internship | |
| *BIO-4800 Senior Seminar — Biology | |
| BIO-2XXX,3XXX, 4XXX, ENVS-2XXX, or 3XXX | |
| Departmental Requirements | |
| CHEM-1110, 1120 General Chemistry I and II | |
| CHEM-3510, 3520 Organic Chemistry I and II | |
| MATH-1710 Calculus I | |
| PHYS-1010, 1020 College Physics I and II | 10 |
| *Capstone Course | |

Biology Major (B.S.) Curriculum Summary

| 0–5 |
|-----|
| 41 |
| 77 |
| 10 |
| 128 |
| |

Students preparing for medicine, dentistry, osteopathy, or any of the **health professions** should refer to page 191 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: |
|---|
| BTGE-1720 Spiritual Formation3 |
| BIO-1110 Introduction to Biology4 |
| BIO-1120 General Zoology4 |
| CHEM-1110, 1120 General Chemistry I and II8 |
| COM-1100 Fundamentals of Speech3 |
| ENG-1400 Composition3 |
| GSS-1100 Politics and American Culture3 |
| HUM-1400 Introduction to the Humanities3 |
| PEF-1990 Physical Activity and the Christian Life2 |
| Total |
| Second year: |
| BIO-2250 Cell Biology4 |
| BIO-2500 General Botany |
| BIO-2600 General Ecology |
| CHEM-3510, 3520 Organic Chemistry I and II8 |
| MATH-1710 Calculus I5 |
| History Elective3 |
| Electives3 |
| Total |
| Third year: BTGE-2730 Old Testament Literature 3 BTGE-2740 New Testament Literature 3 BIO-3300 Genetics 4 BIO-3710 Biochemistry 4 BIO-3800 Biological Research 2 (or BIO-3810 Biology Research Internship 2) PHYS-1010, 1020 College Physics I and II 10 Biology/ENVS Electives 4 Social Science/Global Awareness Elective 3 Total 33 |
| Fourth year: |
| BTGE-3755 Theology I |
| BTGE-3765 Theology II |
| BIO-4800 Senior Seminar — Biology |
| Biology/ENVS Electives 12 |
| Humanities Elective |
| Electives 7 |
| Total 32 |



Department of Science and Mathematics Chemistry — Bachelor of Arts

Chemistry — Bachelor of Arts

The **Bachelor of Arts degree with a major in chemistry** prepares students for careers in the health professions, technical business professions, and other science-related vocations.

| Course requirements involve 34 semester hours including: | |
|--|----|
| Chemistry Requirements | 27 |
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| CHEM-2210 Analytical Chemistry I | 3 |
| CHEM-2800 Introduction to Research in Chemistry | |
| CHEM-3510, 3520 Organic Chemistry I and II | 8 |
| CHEM-3800 Research Methods in Chemistry | |
| CHEM-4310 Thermodynamics and Kinetics | 4 |
| (or CHEM-4320 Quantum Mechanics and Spectroscopy 4 |) |
| *CHEM-4800 Senior Seminar — Chemistry | 1 |
| CHEM 4830 Chemistry Research | 1 |
| CHEM-2XXX, 3XXX, or 4XXX | |
| | |
| Required Cognates | 18 |
| MATH-1710, 1720 Calculus I and II | 10 |

| Chemistry Major (B.A.) Curriculum Summary | |
|--|-----------|
| Proficiency Requirements | 0–5 |
| Other General Education Requirements | 44.5-52.5 |
| Chemistry Major Requirements | 34 |
| Cognates | 18 |
| Electives | 23.5–31.5 |
| Total (minimum, not including proficiency) | 128 |

*Capstone Course

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 191 for a list of courses generally recommended for admission to professional colleges.



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

Suggested Four-Year Curriculum for a Major in Chemistry — B.A.

| First year: | |
|---|--|
| BTGE-1720 Spiritual Formation | 3 |
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| COM-1100 Fundamentals of Speech. | |
| ENG-1400 Composition | |
| MATH-1710, 1720 Calculus I and II | |
| PEF-1990 Physical Activity and the Christian Life | |
| LIT-2XXX Literature Elective | |
| Total | _ |
| iotai | . 52 |
| Second year: | |
| BTGE-2730 Old Testament Literature | 3 |
| BTGE-2740 New Testament Literature | 3 |
| CHEM-2210 Analytical Chemistry I | 3 |
| CHEM-2800 Introduction to Research in Chemistry | 1 |
| GSS-1100 Politics and American Culture | 3 |
| HUM-1400 Introduction to the Humanities | 3 |
| PHYS-2110, 2120 General Physics I and II | 8 |
| Electives | |
| Total | |
| iviai | |
| | |
| Third year: | |
| Third year: BTGE-3755 Theology I | 3 |
| Third year: BTGE-3755 Theology I BTGE-3765 Theology II | 3 |
| Third year: BTGE-3755 Theology I BTGE-3765 Theology II CHEM-3510, 3520 Organic Chemistry I and II | 3 |
| Third year: BTGE-3755 Theology I BTGE-3765 Theology II CHEM-3510, 3520 Organic Chemistry I and II CHEM-3800 Research Methods in Chemistry | 3 8 |
| Third year: BTGE-3755 Theology I BTGE-3765 Theology II CHEM-3510, 3520 Organic Chemistry I and II CHEM-3800 Research Methods in Chemistry. CHEM-2XXX, 3XXX, or 4XXX. | 3 8 1 |
| Third year: BTGE-3755 Theology I BTGE-3765 Theology II CHEM-3510, 3520 Organic Chemistry I and II CHEM-3800 Research Methods in Chemistry. CHEM-2XXX, 3XXX, or 4XXX. Biology Elective | 3 8 1 7 |
| Third year: BTGE-3755 Theology I | 3 8 1 7 3.5 |
| Third year: BTGE-3755 Theology I | 3 8 1 7 3.5 3 |
| Third year: BTGE-3755 Theology I | 3 8 1 7 3.5 3 |
| Third year: BTGE-3755 Theology I BTGE-3765 Theology II CHEM-3510, 3520 Organic Chemistry I and II CHEM-3800 Research Methods in Chemistry CHEM-2XXX, 3XXX, or 4XXX Biology Elective Humanities Elective Social Science/Global Awareness Elective. | 3 8 1 7 3.5 3 |
| Third year: BTGE-3755 Theology I BTGE-3765 Theology II CHEM-3510, 3520 Organic Chemistry I and II CHEM-3800 Research Methods in Chemistry. CHEM-2XXX, 3XXX, or 4XXX. Biology Elective Humanities Elective Social Science/Global Awareness Elective Total | 3 8 1 7 3.5 3 3 |
| Third year: BTGE-3755 Theology I BTGE-3765 Theology II CHEM-3510, 3520 Organic Chemistry I and II CHEM-3800 Research Methods in Chemistry. CHEM-2XXX, 3XXX, or 4XXX. Biology Elective Humanities Elective Social Science/Global Awareness Elective Total Fourth year: CHEM-4310 Thermodynamics and Kinetics | 3 8 1 7 3.5 3 3 |
| Third year: BTGE-3755 Theology I BTGE-3765 Theology II. CHEM-3510, 3520 Organic Chemistry I and II. CHEM-3800 Research Methods in Chemistry. CHEM-2XXX, 3XXX, or 4XXX. Biology Elective Humanities Elective Social Science/Global Awareness Elective Total | 3 8 1 7 3.5 3 3 |
| Third year: BTGE-3755 Theology I | 3 8 1 7 3.5 3 3 31.5 |
| Third year: BTGE-3755 Theology I | 3 8 1 7 3.5 3 3 31.5 4 4) 1 |
| Third year: BTGE-3755 Theology I | 3 8 1 7 3.5 3 31.5 4 4) 1 |



Department of Science and Mathematics Chemistry — Bachelor of Science

Chemistry — Bachelor of Science

The Bachelor of Science degree with a major in chemistry prepares students for graduate study in chemistry and for careers in industry or research. The degree requirements provide training in each of the primary areas of chemistry with the necessary support in mathematics, physics, and biology.

| Course requirements involve 48 semester hours including: Chemistry Requirements | 38 |
|--|------------------------------|
| CHEM-1110, 1120 General Chemistry I and II | |
| CHEM-2210, 2220 Analytical Chemistry I and II | |
| CHEM-2800 Introduction to Research in Chemistry | |
| CHEM-3410 Inorganic Chemistry | |
| CHEM-3510, 3520 Organic Chemistry I and II | |
| CHEM-3800 Research Methods in Chemistry | |
| CHEM-4310 Thermodynamics and Kinetics | |
| CHEM-4320 Quantum Mechanics and Spectroscopy | |
| *CHEM-4800 Senior Seminar — Chemistry | 1 |
| CHEM-4830 Research in Chemistry | 2 |
| CHEM 2XXX, 3XXX, or 4XXX | |
| , , | |
| | |
| Required Cognates | 18 |
| Required Cognates | |
| Required Cognates | 10 |
| MATH-1710, 1720 Calculus I and II | 10 |
| MATH-1710, 1720 Calculus I and IIPHYS-2110, 2120 General Physics I and II | 10 |
| MATH-1710, 1720 Calculus I and IIPHYS-2110, 2120 General Physics I and II | 10 |
| MATH-1710, 1720 Calculus I and II | 10 8 |
| MATH-1710, 1720 Calculus I and II | 10 8 0–5 |
| MATH-1710, 1720 Calculus I and II | 10 8 0–5 44.5 |
| MATH-1710, 1720 Calculus I and II | 10 8 0–5 44.5 48 |
| MATH-1710, 1720 Calculus I and II | 10 8 0–5 44.5 48 |



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

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

| First year: | |
|---|---|
| BTGE-1720 Spiritual Formation3 | , |
| CHEM-1110, 1120 General Chemistry I and II | , |
| COM-1100 Fundamentals of Speech | , |
| | |
| ENG-1400 Composition | 5 |
| MATH-1710, 1720 Calculus I and II10 PEF-1990 Physical Activity and the Christian Life | י |
| History Elective | |
| Total | |
| 10tal 32 | 2 |
| Second year: | |
| BTGE-2730 Old Testament Literature | 3 |
| BTGE-2740 New Testament Literature | |
| CHEM-2210, 2220 Analytical Chemistry I and II6 | 3 |
| CHEM-2800 Introduction to Research in Chemistry1 | |
| CHEM-3510, 3520 Organic Chemistry I and II | |
| PHYS-2110, 2120 General Physics I and II | |
| Biology Elective | |
| Total | |
| - | |
| Third year: | |
| BTGE-3755 Theology I | |
| BTGE-3765 Theology II | |
| CHEM-3800 Research Methods in Chemistry1 | |
| CHEM-4310 Thermodynamics and Kinetics4 | |
| CHEM-4320 Quantum Mechanics and Spectroscopy | |
| GSS-1100 Politics and American Culture | |
| HUM-1400 Introduction to the Humanities | |
| LIT-2XXX Literature Elective | |
| Social Science/Global Awareness Elective | |
| Electives | |
| Total | 1 |
| Fourth year: | |
| CHEM-3410 Inorganic Chemistry3 | 3 |
| CHEM-4800 Senior Seminar — Chemistry1 | |
| CHEM-4830 Research in Chemistry2 | |
| CHEM-2XXX,3XXX, or 4XXX10 |) |
| Humanities Elective3 | |
| Electives | |
| Total 32 ! | 5 |

Department of Science and Mathematics Environmental Science

Environmental Science

The Bachelor of Science degree with a major in environmental science prepares students with a foundation for entering vocations in ecology, conservation biology, environmental education, environmental consulting companies, etc., and graduate study which is often needed for these careers.

| Occurs a magnificamenta includes 70 compostor bosons in alcelinare | |
|---|---|
| Course requirements involve 78 semester hours including: | |
| Environmental Science Requirements | , |
| BIO-1110 Introduction to Biology | |
| BIO-1120 General Zoology4 | |
| BIO-2500 General Botany4 | |
| BIO-2600 General Ecology3 | |
| BIO-3800 Biological Research2 | |
| (or BIO-3810 Biological Research Internship2) | |
| *BIO-4800 Biology Senior Seminar 1 | |
| CHEM-1110, 1120 General Chemistry I and II | |
| CHEM-3510 Organic Chemistry I4 | |
| ENVS-1010 Introduction to Environmental Science | |
| ENVS-2100 Principles of Geographic Information Systems 3 | |
| ENVS-3200 Ecosystem Ecology3 | |
| ENVS-3600 Environmental Ethics | |
| GMTH-2110 Introduction to Biostatistics | |
| MATH-1710 Calculus I5 | |
| POLS-3690 Public Policy3 | |
| 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, geosciences, and molecular | |
| ecology. At least eight of these credits must come from 3000- or 4000-level courses. | |
| The courses in the emphasis will be selected by the student and his or her advisor | |
| and must be approved by the department Chair. This set of courses will be sent to the | Ļ |

| Environmental science electives (meeting the following | |
|--|---|
| criteria for each set) | |
| Set A | |
| BIO-2210 Microbiology | 4 |
| BIO-3300 Genetics | 4 |
| BIO-3410 Invertebrate Zoology | 3 |
| BIO-3420 Vertebrate Zoology | 3 |
| BIO-3520 Plant Taxonomy | |
| **BIO-3610 Environmental Physiology and Ecology | |
| BIO-3710 Biochemistry | |
| BIOA-3220 Aquatic Biology | |
| Set B | |
| **BIO-3610 Environmental Physiology and Ecology | 4 |
| BIO-4910 Environmental Biology Internship | |
| BIOA-4710 Conservation Biology | |
| BIOA-4820 Restoration Ecology | |
| BIOA-XXXX Au Sable course (Advisor Approval) | |
| CHEM-2210 Analytical Chemistry I | |
| CHEM-3210 Environmental Chemistry | |
| | |

Registrar and will become part of the student's academic file.

* Capstone Course

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: | |
|---|---------------------------------|
| BTGE-1720 Spiritual Formation | 3 |
| BIO-1110 Introduction to Biology | 4 |
| BIO-1120 General Zoology | |
| CHEM-1110, 1120 General Chemistry I and II | |
| COM-1100 Fundamentals of Speech | 3 |
| ENG-1400 Composition | 3 |
| ENVS-1010 Introduction to Environmental Science | |
| HUM-1400 Introduction to the Humanities | |
| PEF-1990 Physical Activity and the Christian Life | |
| Total | |
| | • |
| Second year: | |
| BTGE-2730 Old Testament Literature | _ |
| BTGE-2740 New Testament Literature | _ |
| BIO-2500 General Botany | |
| BIO-2600 General Ecology | |
| CHEM-3510 Organic Chemistry I | |
| GMTH-2110 Introduction to Biostatistics | |
| GSS-1100 Politics and American Culture | 3 |
| MATH-1710 Calculus I | 5 |
| Humanities Elective | 3 |
| | |
| Total | . 31 |
| | . 31 |
| Third year: | |
| Third year: BTGE-3755 Theology I | 3 |
| Third year: BTGE-3755 Theology I BIO-3800 Biological Research or BIO-3810 Internship | 3 |
| Third year: BTGE-3755 Theology I BIO-3800 Biological Research or BIO-3810 Internship ENVS-2100 Introduction to Geographic Information Systems | 3 |
| Third year: BTGE-3755 Theology I BIO-3800 Biological Research or BIO-3810 Internship ENVS-2100 Introduction to Geographic Information Systems ENVS-3200 Ecosystem Ecology | 3 2 3 |
| Third year: BTGE-3755 Theology I BIO-3800 Biological Research or BIO-3810 Internship ENVS-2100 Introduction to Geographic Information Systems ENVS-3200 Ecosystem Ecology ENVS-3600 Environmental Ethics | 3 3 3 |
| Third year: BTGE-3755 Theology I | 3 3 3 |
| Third year: BTGE-3755 Theology I BIO-3800 Biological Research or BIO-3810 Internship ENVS-2100 Introduction to Geographic Information Systems ENVS-3200 Ecosystem Ecology ENVS-3600 Environmental Ethics POLS-3690 Public Policy Emphasis requirements | 3 3 3 3 |
| Third year: BTGE-3755 Theology I BIO-3800 Biological Research or BIO-3810 Internship ENVS-2100 Introduction to Geographic Information Systems ENVS-3200 Ecosystem Ecology ENVS-3600 Environmental Ethics POLS-3690 Public Policy Emphasis requirements Environmental Science Electives | 3 3 3 3 |
| Third year: BTGE-3755 Theology I | 3 3 3 3 6 |
| Third year: BTGE-3755 Theology I BIO-3800 Biological Research or BIO-3810 Internship ENVS-2100 Introduction to Geographic Information Systems ENVS-3200 Ecosystem Ecology ENVS-3600 Environmental Ethics POLS-3690 Public Policy Emphasis requirements Environmental Science Electives | 3 3 3 3 6 |
| Third year: BTGE-3755 Theology I | 3 3 3 3 6 |
| Third year: BTGE-3755 Theology I | 3 3 3 3 6 7 |
| Third year: BTGE-3755 Theology I BIO-3800 Biological Research or BIO-3810 Internship ENVS-2100 Introduction to Geographic Information Systems ENVS-3200 Ecosystem Ecology ENVS-3600 Environmental Ethics POLS-3690 Public Policy Emphasis requirements Environmental Science Electives LIT-2XXX Literature Elective Total Fourth year: BTGE-3765 Theology II | 3 3 3 3 3 |
| Third year: BTGE-3755 Theology I | 3 3 3 6 7 3 |
| Third year: BTGE-3755 Theology I | 3 3 3 3 3 3 |
| Third year: BTGE-3755 Theology I | 3 3 3 3 6 7 3 |
| Third year: BTGE-3755 Theology I | 3 3 3 3 3 3 3 |



^{**}This course may not be counted twice in the environmental science elective hours.

Department of Science and Mathematics Forensic Science

Forensic Science

The Bachelor of Science degree with a major in forensic science is an interdisciplinary degree that includes substantial laboratory work and an emphasis on advanced course work in the sciences. It will involve a collaborative endeavor between Cedarville University and the Ohio Bureau of Criminal Identification and Investigation consisting of a forensic laboratory experience on an internship basis with the bureau.

| Course requirements involve 90 semester hours including: | |
|--|-----|
| Science and Math Requirements | 64 |
| BIO-1110 Introduction to Biology | |
| BIO-1120 General Zoology | . 4 |
| BIO-2250 Cell Biology | |
| BIO-3710 Biochemistry | |
| CHEM-1110, 1120 General Chemistry I and II | |
| CHEM-2210, 2220 Analytical Chemistry I and II | |
| CHEM-3510, 3520 Organic Chemistry I and II | . 8 |
| FORS-3400 Forensic Science | . 4 |
| *FORS-4800 Forensic Science Capstone | |
| GSS-3650 Quantitative Methodology | |
| MATH-1710, 1720 Calculus I and II | |
| PHYS-2110, 2120 General Physics I and II | |
| Criminal Justice Requirements | |
| CRJU-1310 Introduction to Criminal Justice | |
| CRJU-3350 Criminal Law | |
| CRJU-3390 Criminal Evidence | |
| CRJU-3400 Criminal Procedure | |
| CRJU-4320 Criminal Investigation | |
| GSS-4990 Internship | .3 |
| Science electives selected from | |
| BIO-3300 Genetics | |
| BIO-4300 Molecular Biology | . 4 |
| CHEM-4310 Thermodynamics and Kinetics | |
| CHEM-4320 Quantum Mechanics and Spectroscopy | . 4 |
| *Capstone Course | |

Forensic Science Major (B.S.) Curriculum Summary

| i orensic 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: | |
|---|----|
| BTGE-1720 Spiritual Formation | 3 |
| BIO-1110 Introduction to Biology | 4 |
| BIO-1120 General Zoology | |
| BIO-2250 Cell Biology | |
| CHEM-1110, 1120 General Chemistry I and II | |
| CRJU-1310 Introduction to Criminal Justice | |
| ENG-1400 Composition | 3 |
| PEF-1990 Physical Activity and the Christian Life | 2 |
| Total | 31 |
| | |
| Second year: | _ |
| BTGE-2730 Old Testament Literature | _ |
| BTGE-2740 New Testament Literature | |
| CHEM-2210, 2220 Analytical Chemistry I and II | .6 |
| COM-1100 Fundamentals of Speech | |
| GSS-1100 Politics and American Culture | |
| HUM-1400 Introduction to the Humanities | _ |
| MATH-1710, 1720 Calculus I and II | |
| LIT-2XXX Literature Elective | |
| Total | 34 |
| Third year: | |
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | |
| BIO-3710 Biochemistry | |
| CHEM-3510, 3520 Organic Chemistry I and II | 8 |
| CRJU-3350 Criminal Law | |
| CRJU-4320 Criminal Investigation | |
| FORS-3400 Forensic Science | |
| GSS-3650 Quantitative Methodology | |
| Humanities Elective | |
| Total | - |
| | - |
| Fourth year: | |
| CRJU-3390 Criminal Evidence | |
| CRJU-3400 Criminal Procedure | 3 |
| FORS-4800 Forensic Science Capstone | |
| GSS-4990 Internship | 3 |
| PHYS-2110, 2120 General Physics I and II | |
| History Elective | |
| | |
| Science Electives | 8 |



Department of Science and Mathematics Geology — Bachelor of Science

Geology — Bachelor of Science

The Bachelor of Science degree with a major in geology prepares students for graduate studies or employment in a wide variety of geological fields. Skills needed by modern geologists, such as observation, interpretation, model analysis, critical thinking, and field work, are emphasized throughout the program. Opportunities for undergraduate research and publication are also available and encouraged.

| Course requirements involve 85 hours including: | |
|--|--|
| Geology Requirements51 | |
| GEOL-1110 Introduction to Physical Geology 4 | |
| GEOL-1120 Historical Geology4 | |
| GEOL-2100 Mineralogy4 | |
| GEOL-3100 Geomorphology4 | |
| GEOL-3200 Invertebrate Paleontology4 | |
| GEOL-3300 Petrology4 | |
| GEOL-3400 Structural Geology4 | |
| GEOL-3800 Philosophy of Science/Research Methods | |
| in Geology3 | |
| GEOL-4100 Environmental Geology 4 | |
| GEOL-4200 Stratigraphy and Sedimentology5 | |
| GEOL-4400 Summer Field Camp6 | |
| *GEOL-4800 Senior Project2 | |
| Geology electives3 | |
| Departmental Requirements34 | |
| BIO-1110 Introduction to Biology4 | |
| CHEM-1110, 1120 General Chemistry I and II8 | |
| MATH-1710, 1720 Calculus I and II | |
| PHYS-2110, 2120 General Physics I, II | |
| Earth science electives selected from4 | |
| ESCI-2310 Oceanography4 | |
| ESCI-2410 Meteorology4 | |
| ESCI-2510 Astronomy4 | |

*Capstone Course

Geology Major (B.S.) Curriculum Summary

| deology Major (B.S.) Curriculum Summary | |
|--|-----|
| Proficiency Requirements | 0–5 |
| Other General Education Requirements | 41 |
| Geology Major Requirements | 85 |
| 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 Geology — B.S.

| First year: BTGE-1720 Spiritual Formation | 8 3 4 4 |
|--|-----------------------|
| Second year: BIO-1110 Introduction to Biology | 3 4 3 2 |
| Third year: BTGE-2730 Old Testament Literature BTGE-2740 New Testament Literature GEOL-3100 Geomorphology GEOL-3200 Invertebrate Paleontology GEOL-3400 Structural Geology GEOL-3800 Philosophy of Science/Research Methods in Geology GEOL-4200 Stratigraphy and Sedimentology LIT-2XXX Literature Elective Total | 3 4 4 3 5 |
| Summer GEOL-4400 Summer Field Camp | 6 |
| Fourth year: BTGE-3755 Theology I | 3 4 3 3 3 |
| Total | |



Department of Science and Mathematics Geosciences — Bachelor of Arts

Geosciences — Bachelor of Arts

The **Bachelor of Arts degree with a major in geosciences** prepares students for employment in the areas of geology and environmental science. The major is a hybrid of the geology and environmental science majors.

| Course requirements involve or nours including. | |
|--|----|
| Geosciences Requirements | 87 |
| BIO-1110 Introduction to Biology4 | |
| BIO-1120 General Zoology4 | |
| BIO-2500 General Botany4 | |
| BIO-2600 General Ecology3 | |
| CHEM-1110,1120 General Chemistry I, II | |
| CHEM-2210 Analytical Chemistry I | |
| ENVS-1010 Introduction to Environmental Science | |
| ENVS-2100 Principles of Geographic Information Systems 3 | |
| ENVS-3200 Ecosystem Ecology | |
| ENVS-3600 Environmental Ethics | |
| ESCI-2410 Meteorology4 | |
| GEOL-1110 Introduction to Physical Geology4 | |
| GEOL-1120 Historical Geology4 | |
| GEOL-2100 Mineralogy 4 | |
| GEOL-3100 Geomorphology4 | |
| GEOL-3300 Petrology4 | |
| GEOL-3600 Readings in Geology (1 credit hour, taken twice). 2 GEOL-3800 Philosophy of Science/Research Methods | |
| in Geology3 | |
| GEOL-4100 Environmental Geology4 | |
| *GEOL-4800 Senior Project | |
| GMTH-1030 Precalculus4 | |
| GMTH-2110 Biostatistics3 | |
| MGMT-3500 Principles of Organization and Management 3 | |
| POLS-3690 Public Policy3 | |
| BIO, ENVS, or GEOL-3000 or 4000 Electives | |
| *Capstone Course | |

Geosciences Major (B.A.) Curriculum Summary

| Proficiency Requirements | 0— |
|--|-------|
| Other General Education Requirements | 38–46 |
| Geosciences Major Requirements | 8 |
| 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 Geosciences — B.A.

| First year: | _ |
|--|-----|
| BTGE-1720 Spiritual Formation | |
| BIO-1110 Introduction to BiologyBIO-1120 General Zoology | |
| COM-1100 Fundamentals of Speech | |
| ENG-1400 Composition | |
| ENVS-1010 Introduction to Environmental Science | 1 |
| GEOL-1110 Introduction to Physical Geology | |
| GEOL-1120 Historical Geology | |
| PEF-1990 Physical Activity and the Christian Life | .2 |
| History Elective/Global Awareness Elective | |
| Total | |
| | |
| Second year: | |
| BIO-2500 General Botany | |
| BIO-2600 General Ecology | .3 |
| CHEM-1110, 1120 General Chemistry I, II | |
| GEOL-2100 Mineralogy | .4 |
| GEOL-3300 Petrology | |
| GMTH-1030 PrecalculusGMTH-2110 Biostatistics | |
| Total | |
| Total | 30 |
| Third year: | |
| BTGE-2730 Old Testament Literature | .3 |
| BTGE-2740 New Testament Literature | .3 |
| CHEM-2210 Analytical Chemistry I | .3 |
| ENVS-2100 Principles of Geographic Information Systems | .3 |
| ENVS-3600 Environmental Ethics | |
| GEOL-3100 Geomorphology | . 4 |
| GEOL-3600 Readings in Geology (1 credit hour, taken twice) | . 1 |
| GEOL-3800 Philosophy of Science/Research Methods in Geology. | |
| MGMT-3500 Principles of Organizational Management | .3 |
| POLS-3690 Public Policy | |
| Humanities Elective | |
| Total | 32 |
| Fourth year: | |
| BTGE-3755 Theology I | .3 |
| BTGE-3765 Theology II | .3 |
| ENVS-3200 Ecosystem Ecology | |
| ESCI-2410 Meteorology | . 4 |
| GEOL-3600 Readings in Geology (1 credit hour, taken twice) | . 1 |
| GEOL-4100 Environmental Geology | |
| GEOL-4800 Senior Project | .2 |
| GSS-1100 Politics and American Culture | |
| HUM-1400 Introduction to the Humanities | |
| LIT-2XXX Literature Elective | .3 |
| GEOL, ENVS, or BIO 3000 or 4000 Elective | |
| Elective | |
| | |



Department of Science and Mathematics Mathematics — Bachelor of Arts

Mathematics — Bachelor of Arts

The Bachelor of Arts degree with a major in mathematics provides course work and training in advanced mathematics. Because of the general nature of this curriculum and opportunity to complement the major with electives from other fields of study, this curriculum provides excellent preparation for graduate study in areas that require good quantitative and/or analytical skills such as philosophy, business, and theology. This liberal arts major also prepares students for a wide variety of career opportunities that require a general Bachelor of Arts degree. The flexibility of this major enables students to select their mathematics and other electives to meet educational or career goals.

Students should include courses in astronomy, chemistry, and physics as general electives.

| Course requirements involve 54 semester hours including: |
|--|
| Mathematics Core Requirements42 |
| CS-1210 C++ Programming2 |
| MATH-1710, 1720, 2710 Calculus I, II, and III |
| MATH-1990 Beautiful Math Structures and Thinking3 |
| MATH-2210 Logic and Methods of Proof3 |
| MATH-2740 Differential Equations |
| MATH-2800 LaTeX for Technical Documents1 |
| MATH-3610 Linear Algebra3 |
| MATH-3800 Research Methods in Mathematics1 |
| *MATH-4800 Capstone Experience in Mathematics3 |
| PHYS-2110, 2120, 2130 General Physics I, II, and III 10 |
| Electives (meeting the following criteria)12 |
| Applied courses (at least three hours from the following |
| applied courses) 3 |
| MATH-3110, 4110 Probability and Statistics I and II6 |
| MATH-3240 Introduction to Operations Research3 |
| MATH-3550 Discrete Mathematics: Graph Theory3 |
| MATH-3750 Introduction to Dynamical Systems3 |
| MATH-3760 Numerical Analysis3 |
| MATH-4210 Mathematical Methods for Physicists3 |
| MATH-4880 Topics in Mathematics1-3 |
| MATH-4900 Independent Study in Mathematics1-3 |
| Theoretical courses (at least three hours from the |
| following)3 |
| MATH-3500 Number Theory3 |
| MATH-3550 Discrete Mathematics: Graph Theory3 |
| MATH-3560 Discrete Mathematics: Combinatorics3 |
| MATH 9749 Overslav Veriables |
| MATH-3740 Complex Variables3 |
| MATH-4410 Euclidean and Non-Euclidean Geometry3 |
| MATH-4450 Topology |
| MATH-4610, 4620 Abstract Algebra I and II6 |
| MATH-4710, 4720 Real Variables I and II6 |
| MATH 4880 Topics in Mathematics |
| MATH-4900 Independent Study in Mathematics1–3 |
| *Capstone Course |

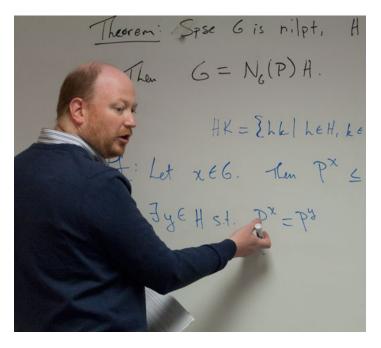
Mathematics Major (B.A.) Curriculum Summary

| Proficiency Requirements | 0–5 |
|--|-----------|
| Other General Education Requirements | 44.5-52.5 |
| Mathematics Major Requirements | 54 |
| Electives | |
| Total (minimum, not including proficiency) | 128 |

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

Suggested Four-Year Curriculum for a Major in Mathematics — B.A.

| First year: BTGE-1720 Spiritual Formation 3 COM-1100 Fundamentals of Speech 3 CS-1210 C++ Programming 2 ENG-1400 Composition 3 HUM-1400 Introduction to the Humanities 3 MATH-1710, 1720 Calculus I and 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 2 Total 30 | |
|---|--|
| Second year: BTGE-2730 Old Testament Literature | |
| Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 GBIO-1000 Principles of Biology 3.5 MATH-3610 Linear Algebra 3 PHYS-2130 General Physics III 2 Humanities Elective 3 Mathematics Electives 6 Social Science/Global Awareness Elective 3 Electives 7 Total 33.5 Fourth year: MATH-4800 Capstone Experience in Mathematics 3 History Elective 3 Mathematics Electives 6 Electives 20 | |



Department of Science and Mathematics Mathematics — Bachelor of Science

Mathematics — Bachelor of Science

The Bachelor of Science degree with a major in mathematics prepares students for graduate study in mathematics. The curriculum includes the course requirements prescribed by many of the leading graduate-level mathematics programs in the nation.

Students should include courses in astronomy, chemistry, and physics as general electives. Course requirements involve 69 hours:

| nours. |
|--|
| Mathematics Core Requirements48 |
| CS-1210 C++ Programming2 |
| MATH-1710, 1720, 2710 Calculus I, II, and III |
| MATH-1990 Beautiful Math Structures and Thinking |
| MATH-2210 Logic and Methods of Proof |
| MATH-2740 Differential Equations |
| MATH-2800 LaTeX for Technical Documents |
| MATH-3610 Linear Algebra |
| |
| MATH- 4610 Abstract Algebra I |
| MATH-4710 Real Variables I |
| PHYS-2110, 2120, 2130 General Physics I, II, and III |
| Electives (meeting the following criteria)21 |
| Applied courses (at least six hours from the following |
| applied courses)6–15 |
| MATH-3110, 4110 Probability and Statistics I and II6 |
| MATH-3240 Introduction to Operations Research3 |
| MATH-3550 Discrete Mathematics: Graph Theory3 |
| MATH-3750 Introduction to Dynamical Systems3 |
| MATH-3760 Numerical Analysis3 |
| MATH-4210 Mathematical Methods for Physicists3 |
| MATH-4880 Topics in Mathematics1-3 |
| MATH-4900 Independent Study in Mathematics1-3 |
| Theoretical courses (at least six hours from the following |
| theoretical courses)6-15 |
| MATH-3500 Number Theory3 |
| MATH-3550 Discrete Mathematics: Graph Theory3 |
| MATH-3560 Discrete Mathematics: Combinatorics3 |
| MATH-3710 Advanced Calculus3 |
| MATH-3740 Complex Variables3 |
| MATH-4410 Euclidean and Non-Euclidean Geometry3 |
| MATH-4450 Topology3 |
| MATH-4620 Abstract Algebra II3 |
| MATH-4720 Real Variables II |
| MATH-4880 Topics in Mathematics1–3 |
| MATH-4900 Independent Study in Mathematics1–3 |
| *Canatona Course |

*Capstone Course

Mathematics Major (B.S.) Curriculum Summary

| Total (minimum, not including proficiency) | 128 |
|--|------|
| Electives | 14.5 |
| Mathematics Major Requirements | 69 |
| General Education Requirements | 44.5 |
| 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 Mathematics — B.S.

| First year: BTGE-1720 Spiritual Formation 3 COM-1100 Fundamentals of Speech 3 CS-1210 C++ Programming 2 ENG-1400 Composition 3 HUM-1400 Introduction to the Humanities 3 MATH-1710, 1720 Calculus I and 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 2 Total 30 |
|---|
| Second year: 3 BTGE-2730 Old Testament Literature 3 BTGE-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-3800 Desearch Methods in Mathematics 1 PHYS-2110, 2120 General Physics I and II 8 LIT-2XXX Literature Elective 3 Total 30 |
| Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 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 34 |
| Fourth year: 3 MATH-4800 Capstone Experience in Mathematics 3 History Elective 3 Mathematics Electives 15 Social Science/Global Awareness Elective 3 Electives 10 Total 34 |



Department of Science and Mathematics Molecular and Cellular Biology

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 78 nours including: |
|--|
| Biology Requirements62 |
| BIO-1110 Introduction to Biology4 |
| ¹ BIO-1120 General Zoology4 |
| (or BIO-2500 General Botany4) |
| BIO-2250 Cell Biology4 |
| BIO-3300 Genetics4 |
| BIO-3710 Biochemistry4 |
| BIO-3800 Biological Research2 |
| (or BIO-3810 Biology Research Internship2) |
| BIO-4210 Advanced Cell Biology |
| BIO-4300 Molecular Biology of the Cell4 |
| *BIO-4800 Senior Seminar — Biology1 |
| CHEM-1110, 1120 General Chemistry I and II8 |
| CHEM-3510, 3520 Organic Chemistry I and II8 |
| MATH-1710 Calculus I5 |
| PHYS-1010, 1020 College Physics I and II 10 |
| Biology electives selected from the following16 |
| Selected from7 |
| BIO-2210 Microbiology4 |
| BIO-4220 Signal Transduction3 |
| BIO-4310 Eukaryotic Gene Regulation3 |
| BIO-4350 Immunology4 |
| Any 3000- or 4000-level biology electives9 |
| Suggested Emphasis Areas |
| Molecular Biology in Plant Systems: |
| Biology electives selected from: |
| BIO-2500 General Botany4 |
| BIO-3510 Plant Physiology3 |
| BIO-3520 Plant Taxonomy3 |
| BIOA-3600 Molecular Field Biology4 |
| Molecular Biology in Animal Systems: |
| Biology electives selected from: |
| BIO-1120 General Zoology4 |
| BIO-3410 Invertebrate Zoology3 BIO-3420 Vertebrate Zoology3 |
| BIO-3420 Vertebrate Zoology4 |
| Molecular Biology in Human Systems: |
| Piology electives calcuted from |
| BIO-1120 General Zoology4 |
| BIO-3450, 3460 Human Structure and Function I and II4 |
| BIO-4410 Developmental Biology4 |
| Molecular Biology in Prokaryotic Systems: |
| Biology electives selected from: |
| BIO-2210 Microbiology4 |
| BIO-2600 General Ecology3 |
| ¹Students selecting BIO-1120 General Zoology will take this course in the freshman |
| |

¹Students selecting BIO-1120 General Zoology will take this course in the freshman year. Students selecting BIO-2500 General Botany will take this course in the sophomore year.

*Capstone Course

Molecular and Cellular Biology Major (B.S.) Curriculum Summary

| Summary | |
|---|-----|
| Proficiency Requirements | 0–5 |
| General Education Requirements | 41 |
| Molecular and Cellular Biology Major Requirements | 78 |
| Electives | 9 |
| 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 Molecular and Cellular Biology — B.S.

| First year: | |
|---|------|
| BTGE-1720 Spiritual Formation | 3 |
| BIO-1110 Introduction to Biology | |
| BIO-1120 General Zoology | 4 |
| (or BIO-2500 General Botany | 4) |
| CHEM-1110, 1120 General Chemistry I and II | |
| COM-1100 Fundamentals of Speech | |
| ENG-1400 Composition | 3 |
| HUM-1400 Introduction to the Humanities | |
| PEF-1990 Physical Activity and the Christian Life | 2 |
| Totals | |
| | |
| Second year: | |
| BIO-2250 Cell Biology | 4 |
| CHEM-3510, 3520 Organic Chemistry I and II | 8 |
| MATH-1710 Calculus I | |
| GSS-1100 Politics and American Culture | |
| History Elective | |
| Humanities Elective | |
| LIT-2XXX Literature Elective | |
| Electives | _ |
| Total | 32 |
| Third year: | |
| BTGE-2730 Old Testament Literature | 3 |
| BTGE-2740 New Testament Literature | |
| BIO-3300 Genetics | _ |
| BIO-3710 Biochemistry | |
| BIO-3800 Biological Research | |
| (or BIO-3810 Biology Research Internship | 2) |
| BIO-4210 Advanced Cell Biology | |
| PHYS-1010, 1020 College Physics I and II | . 10 |
| Electives | |
| Total | |
| | |
| Fourth year: | |
| BTGE-3755 Theology I | |
| BTGE-3765 Theology II | |
| BIO-4300 Molecular Biology of the Cell | 4 |
| BIO-4800 Senior Seminar — Biology | |
| Biology Electives | 16 |
| Social Science/Global Awareness Elective | |
| Electives | 2 |
| Total | |



Department of Science and Mathematics Physics — Bachelor of Science

Physics — Bachelor of Science

The **physics major** prepares students for graduate study in physics or for employment opportunities in industry. The curriculum includes courses prescribed by leading graduate-level physics programs in the nation.

Students should include courses in mathematics and chemistry as general electives. Students must demonstrate proficiency in the general physics sequence to advance into 3000- and 4000-level courses.

Course we suite meants involve CO F compates have including

| Course requirements involve 68.5 semester hours including: | |
|--|------|
| Physics Core Requirements | 62.5 |
| CHEM-1050 Chemistry for Engineers | .5 |
| CS-1210 C++ Programming | 2 |
| EGEE-2050 Circuits and Instrumentation | 4 |
| MATH-1710, 1720, 2710 Calculus I, II, and III | 3 |
| MATH-2740 Differential Equations | 3 |
| MATH-3610 Linear Algebra | |
| *PHYS-2110, 2120, 2130 General Physics I, II, and III 1 | 0 |
| PHYS-3110 Intermediate Physics Lab | 2 |
| PHYS-3310 Theoretical Mechanics I | 3 |
| PHYS-3350 Thermal Physics | 3 |
| PHYS-3410 Electromagnetic Theory I | 3 |
| PHYS-3510 Modern Physics | |
| PHYS-3800 Research Methods in Physics | |
| PHYS-4110 Advanced Physics Lab | 2 |
| PHYS-4210 Mathematical Methods for Physicists | 3 |
| PHYS-4520 Quantum Mechanics I | |
| PHYS-4800 Physics Senior Seminar | 1 |
| Electives selected from the following PHYS-3000 and | |
| PHYS-4000-level courses | _ |
| PHYS-3330 Acoustics | |
| PHYS-4310 Theoretical Mechanics II | |
| PHYS-4410 Electromagnetic Theory II | |
| PHYS-4450 Optics | |
| PHYS-4530 Quantum Mechanics II | |
| PHYS-4880 Topics in Physics1- | -3 |
| *All students must earn a C+ or higher in these courses. | |
| R S Physics Curriculum Summary | |

B.S. Physics Curriculum Summary

| 5.5. Filysics Culficulani Sunniary | |
|--|------|
| Proficiency Requirements | 0–5 |
| Other General Education Requirements | 44.5 |
| Physics Major Requirements | 68.5 |
| Electives | 15 |
| Total (minimum, not including proficiency) | 128 |



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

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

| First year: | |
|---|-----|
| BTGE-1720 Spiritual Formation | |
| CHEM-1050 Chemistry for Engineers3 | 3.5 |
| COM-1100 Speech | |
| CS-1210 C++ Programming | |
| ENG-1400 English Composition | 3 |
| MATH-1710,1720 Calculus I and II | |
| PEF-1990 Physical Activity and the Christian Life | .2 |
| PHYS-2110 General Physics I | .4 |
| Total |).5 |
| Second year: | |
| BTGE-2730 Old Testament Literature | 2 |
| BTGE-2740 New Testament Literature | |
| EGEE-2050 Circuits and Instrumentation | |
| GBIO-1000 Principles of Biology | |
| GSS-1100 Politics and American Culture |).O |
| MATH-2710 Calculus III | . ა |
| MATIL 0740 Differential Equations | . 3 |
| MATH-2740 Differential Equations | . 3 |
| PHYS-2120, 2130 General Physics II and III | |
| PHYS-3310 Theoretical Mechanics I | - |
| Total3 | 1.5 |
| Third year: | |
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | |
| HUM-1400 Introduction to the Humanities | 3 |
| MATH-3610 Linear Algebra | |
| PHYS-3110 Intermediate Physics Lab | |
| PHYS-3350 Thermal Physics | |
| PHYS-3410 Electromagnetic Theory I | |
| PHYS-3510 Modern Physics | 3 |
| PHYS-3800 Research Methods in Physics | . 1 |
| LIT-2XXX Literature Elective | 3 |
| Electives | |
| Total | |
| | |
| Fourth year: | _ |
| PHYS-4110 Advanced Physics Lab. | .2 |
| PHYS-4210 Mathematical Methods for Physicists | .3 |
| PHYS-4520 Quantum Mechanics I | |
| PHYS-4800 Senior Seminar — Physics | . 1 |
| History Elective/Global Awareness Elective | |
| Humanities Elective | |
| Physics Electives | .6 |
| Social Science Elective | |
| Electives | .9 |
| Total | 33 |

DepartmentofScienceandMathematicsTeacherEducationLicensureProgramsAdolescentandYoungAdultationLicensureProgramsAdolescentandProgramsAdolescentandYoungAdultationLicensureProgramsAdolescentandProgramsAdolescentandYoungAdultationLicensureProgramsAdolescentandProgramsAdolescentandProgramsAdolescentandProgramsAdolescentandProgramsAdolescentandProgramsAdolescentandProgramsAdolescentan

Teacher Education Licensure Programs Adolescent and Young Adult

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

- Chemistry
- · Life Science
- Mathematics Integrated
- Physical Science
- Physics
- Science Comprehensive Integrated

The course requirements for each licensure field are outlined under each major. However, the following courses are common to all adolescent/young adult majors in this department:

| all adolescent/young adult majors in this department: | |
|---|----|
| Teacher Education | 4 |
| EDSE-3000 Principles of Teaching AYA Learners | 4 |
| EDSE-4000 Reading in the Content Area: AYA | 3 |
| or EDUC-4000 Reading in the Content | |
| Area: AYA Math Education | .3 |
| EDSE-4450 Adolescent/Young Adult Field Experience | 2 |
| EDSE-4900 Student Teaching and Seminar: AYA | 12 |
| EDSP-2100 Exceptionalities and Behavior | 2 |
| EDSP-4250 Communication, Collaboration and Inclusion | 2 |
| EDUC-1000 The Education Profession | |
| EDUC-1050 Preliminary Student Involvement | 0 |
| EDUC-2050 Teaching Diverse Learners | 2 |
| EDUC-2100 e-Learning for Educators | 3 |
| EDUC-2300 Assessment and Differentiation | 2 |
| EDUC-2500 Educational Psychology | 3 |
| EDUC-3100 Philosophical Foundations of Education | 3 |
| EDUC-3200 Faith and Learning Alignment | 1 |
| Specific information regarding admission to the Teacher | |

Specific information regarding admission to the Teacher Education Program and course descriptions is located in the School of Education section (page 83).

Chemistry Education (Bachelor of Arts)

The **chemistry education major** prepares students to engage the culture as chemistry teachers in the middle school and high school setting, in both public and private institutions. The goal of the program is to prepare future educators with a heart for Christ and a high view of God's Word.

| Course requirements involve 94.5 semester hours including: | |
|--|------|
| Chemistry Core Requirements | 55.5 |
| CHEM-1010 Principles of Biochemistry | . 5 |
| CHEM-1110, 1120 General Chemistry I and II | . 8 |
| CHEM-2210 Analytical Chemistry I | . 3 |
| CHEM-2800 Introduction to Research in Chemistry | . 1 |
| CHEM-3210 Environmental Chemistry | |
| CHEM-3410 Inorganic Chemistry | . 3 |
| CHEM-3510, 3520 Organic Chemistry I and II | . 8 |
| *CHEM-4800 Senior Seminar — Chemistry | . 1 |
| GBIO-1000 Principles of Biology | .5 |
| MATH-1710 Calculus I | . 5 |
| PHYS-1010, 1020 College Physics I and II | 10 |
| SCED-3110 Clinical Teaching in Science | . 1 |
| SCED-3120 Teaching Science for Adolescent and Young Adul | |
| Teacher Education | 41 |

^{*}Capstone Course

| Chemistry Education (B.A.) Summary | |
|--|-------|
| Proficiency Requirements | 0–5 |
| General Education Requirements | 38–46 |
| Chemistry Education Major Requirements | 55.5 |
| Teacher Education Requirements | 41 |
| Total (minimum, not including proficiency) | 134.5 |

A complete description of the general education requirements is found on page 24. Suggested Four-Year Curriculum for a Major in Chemistry Education

Department of Science and Mathematics Life Science Education — Bachelor of Arts

Life Science Education — Bachelor of Arts

| Course requirements involve 60.5 semester hours including: | |
|--|-----|
| Biology Core Requirements | 32 |
| BIO-1110 Introduction to Biology | 4 |
| BIO-1120 General Zoology | 4 |
| BIO-2250 Cell Biology | 4 |
| BIO-2500 General Botany | 4 |
| BIO-2600 General Ecology | . 3 |
| BIO-3300 Genetics | |
| BIO-3710 Biochemistry | |
| *BIO-4800 Senior Seminar — Biology | . 1 |
| Biology electives selected from the following | 4 |
| BIO-3410 Invertebrate Zoology3 | |
| BIO-3450 Human Structure and Function I4 | |
| BIO-3460 Human Structure and Function II3 | |
| BIO-3510 Plant Physiology3 | |
| BIO-3520 Plant Taxonomy3 | |
| BIO-3610 Environmental Physiology and Ecology4 | |
| BIO-4300 Molecular Biology of the Cell4 | |
| BIOA-3600 Topics in Environmental Biology4 | |
| Physical Science/Mathematics/Science Methods | |
| CHEM-1110, 1120 General Chemistry I and II | |
| CHEM-3510 Organic Chemistry I | |
| GSCI-1010 Principles of Earth Science | |
| GMTH-1030 Precalculus | |
| PHYS-1010 College Physics I | |
| SCED-3110 Clinical Teaching in Science | |
| SCED-3120 Teaching Science | |
| Teacher Education | 41 |
| *Capstone Course | |
| | |

Life Science Education Summary

| Life Science Education Summary | |
|--|-------|
| Proficiency Requirements | 0–5 |
| General Education Requirements | 38-46 |
| Life Science Education Major Requirements | 60.5 |
| Teacher Education Requirements | 41 |
| Total (minimum, not including proficiency) | 139.5 |



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

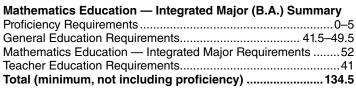
Suggested Four-Year Curriculum for a Major in Life Science Education

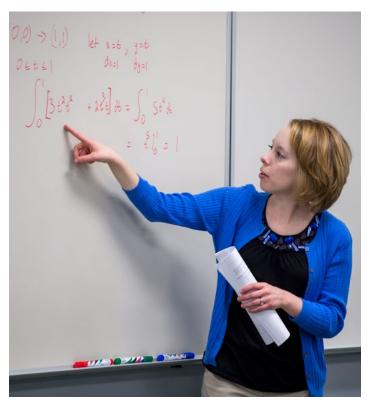
| First year: | |
|--|--|
| BTGE-1720 Spiritual Formation | 3 |
| BIO-1110 Introduction to Biology | 4 |
| BIO-1120 General Zoology | 4 |
| CHEM-1110, 1120 General Chemistry I and II | |
| EDUC-1000 The Education Profession | 2 |
| EDUC-1050 Preliminary Student Involvement | 0 |
| ENG-1400 Composition | |
| GMTH-1030 Precalculus | |
| GSS-1100 Politics and American Culture | |
| PEF-1990 Physical Activity and the Christian Life | |
| Total | 33 |
| Second year: | |
| BTGE-2730 Old Testament Literature | 3 |
| BTGE-2740 New Testament Literature | |
| BIO-2250 Cell Biology | |
| BIO-2500 General Botany | |
| BIO-2600 General Ecology | 3 |
| CHEM-3510 Organic Chemistry I | 4 |
| COM-1100 Fundamentals of Speech | 3 |
| EDSP-2100 Exceptionalities and Behavior | 2 |
| EDUC-2050 Teaching Diverse Learners | |
| EDUC-2100 e-Learning for Educators | |
| EDUC-2300 Assessment and Differentiation | |
| EDUC-2500 Educational Psychology | 3 |
| Total | |
| | |
| The first seasons | |
| Third year: | 0 |
| BTGÉ-3755 Theology I | |
| BTGÉ-3755 Theology IBTGE-3765 Theology II | 3 |
| BTGÉ-3755 Theology I | 3 4 |
| BTGÉ-3755 Theology I | 3 4 4 |
| BTGÉ-3755 Theology I | 3 4 4 1 |
| BTGÉ-3755 Theology I | 3 4 1 1 |
| BTGÉ-3755 Theology I | 3 4 1 3.5 |
| BTGÉ-3755 Theology I | 3 4 1 3.5 3 |
| BTGÉ-3755 Theology I | 3 4 1 3.5 3 |
| BTGÉ-3755 Theology I BTGE-3765 Theology II BIO-3300 Genetics BIO-3710 Biochemistry EDUC-3200 Faith and Learning Alignment GSCI-1010 Principles of Earth Science HUM-1400 Introduction to the Humanities. PHYS-1010 College Physics I Biology Electives LIT-2XXX Literature Elective | 3413.533 |
| BTGÉ-3755 Theology I BTGE-3765 Theology II BIO-3300 Genetics BIO-3710 Biochemistry EDUC-3200 Faith and Learning Alignment GSCI-1010 Principles of Earth Science HUM-1400 Introduction to the Humanities. PHYS-1010 College Physics I Biology Electives LIT-2XXX Literature Elective Social Science/Global Awareness Elective. | 3333333 |
| BTGÉ-3755 Theology I BTGE-3765 Theology II BIO-3300 Genetics BIO-3710 Biochemistry EDUC-3200 Faith and Learning Alignment GSCI-1010 Principles of Earth Science HUM-1400 Introduction to the Humanities PHYS-1010 College Physics I Biology Electives LIT-2XXX Literature Elective Social Science/Global Awareness Elective Total | 3333333 |
| BTGÉ-3755 Theology I BTGE-3765 Theology II BIO-3300 Genetics BIO-3710 Biochemistry EDUC-3200 Faith and Learning Alignment GSCI-1010 Principles of Earth Science HUM-1400 Introduction to the Humanities PHYS-1010 College Physics I Biology Electives LIT-2XXX Literature Elective Social Science/Global Awareness Elective Total Fourth year: | 3433333333 |
| BTGÉ-3755 Theology I BTGE-3765 Theology II BIO-3300 Genetics BIO-3710 Biochemistry EDUC-3200 Faith and Learning Alignment GSCI-1010 Principles of Earth Science HUM-1400 Introduction to the Humanities PHYS-1010 College Physics I Biology Electives LIT-2XXX Literature Elective Social Science/Global Awareness Elective Total Fourth year: BIO-4800 Senior Seminar-Biology. | 3413.5333333333 |
| BTGÉ-3755 Theology I BTGE-3765 Theology II BIO-3300 Genetics BIO-3710 Biochemistry EDUC-3200 Faith and Learning Alignment GSCI-1010 Principles of Earth Science HUM-1400 Introduction to the Humanities PHYS-1010 College Physics I Biology Electives LIT-2XXX Literature Elective Social Science/Global Awareness Elective Total Fourth year: BIO-4800 Senior Seminar-Biology. EDSE-4000 Reading in the Content Area: AYA | 343.533533336.5 |
| BTGÉ-3755 Theology I BTGE-3765 Theology II BIO-3300 Genetics BIO-3710 Biochemistry EDUC-3200 Faith and Learning Alignment GSCI-1010 Principles of Earth Science HUM-1400 Introduction to the Humanities. PHYS-1010 College Physics I Biology Electives LIT-2XXX Literature Elective Social Science/Global Awareness Elective Total Fourth year: BIO-4800 Senior Seminar-Biology EDSE-4000 Reading in the Content Area: AYA EDSE-3000 Principles of Teaching AYA Learners | 343.533336.5336.5 |
| BTGÉ-3755 Theology I | 343.533336.5336.5 |
| BTGÉ-3755 Theology I BTGE-3765 Theology II BIO-3300 Genetics BIO-3710 Biochemistry EDUC-3200 Faith and Learning Alignment GSCI-1010 Principles of Earth Science HUM-1400 Introduction to the Humanities. PHYS-1010 College Physics I Biology Electives LIT-2XXX Literature Elective Social Science/Global Awareness Elective Total Fourth year: BIO-4800 Senior Seminar-Biology. EDSE-4000 Reading in the Content Area: AYA EDSE-3000 Principles of Teaching AYA Learners EDSE-4450 Adolescent/Young Adult Field Experience EDSE-4900 Student Teaching and Seminar: AYA | 343.5333 |
| BTGÉ-3755 Theology I BTGE-3765 Theology II BIO-3300 Genetics BIO-3710 Biochemistry EDUC-3200 Faith and Learning Alignment GSCI-1010 Principles of Earth Science HUM-1400 Introduction to the Humanities. PHYS-1010 College Physics I Biology Electives LIT-2XXX Literature Elective Social Science/Global Awareness Elective Total Fourth year: BIO-4800 Senior Seminar-Biology. EDSE-4000 Reading in the Content Area: AYA EDSE-3000 Principles of Teaching AYA Learners EDSE-4450 Adolescent/Young Adult Field Experience EDSE-4900 Student Teaching and Seminar: AYA EDSP-4250 Communication, Collaboration and Inclusion | 343.533336.5 |
| BTGÉ-3755 Theology I BTGE-3765 Theology II BIO-3300 Genetics BIO-3710 Biochemistry EDUC-3200 Faith and Learning Alignment GSCI-1010 Principles of Earth Science HUM-1400 Introduction to the Humanities. PHYS-1010 College Physics I Biology Electives LIT-2XXX Literature Elective Social Science/Global Awareness Elective Total Fourth year: BIO-4800 Senior Seminar-Biology. EDSE-4000 Reading in the Content Area: AYA EDSE-3000 Principles of Teaching AYA Learners EDSE-4450 Adolescent/Young Adult Field Experience EDSE-4900 Student Teaching and Seminar: AYA EDSP-4250 Communication, Collaboration and Inclusion EDUC-3100 Philosophical Foundations of Education | 343.53536.536.531323233333333 |
| BTGÉ-3755 Theology I BTGE-3765 Theology II BIO-3300 Genetics BIO-3710 Biochemistry EDUC-3200 Faith and Learning Alignment GSCI-1010 Principles of Earth Science HUM-1400 Introduction to the Humanities. PHYS-1010 College Physics I Biology Electives LIT-2XXX Literature Elective Social Science/Global Awareness Elective Total Fourth year: BIO-4800 Senior Seminar-Biology. EDSE-4000 Reading in the Content Area: AYA EDSE-3000 Principles of Teaching AYA Learners EDSE-4450 Adolescent/Young Adult Field Experience EDSE-4900 Student Teaching and Seminar: AYA EDSP-4250 Communication, Collaboration and Inclusion. EDUC-3100 Philosophical Foundations of Education SCED-3110 Clinical Teaching in Science. | 34 |
| BTGÉ-3755 Theology I BTGE-3765 Theology II BIO-3300 Genetics BIO-3710 Biochemistry EDUC-3200 Faith and Learning Alignment GSCI-1010 Principles of Earth Science HUM-1400 Introduction to the Humanities. PHYS-1010 College Physics I Biology Electives LIT-2XXX Literature Elective Social Science/Global Awareness Elective Total Fourth year: BIO-4800 Senior Seminar-Biology. EDSE-4000 Reading in the Content Area: AYA EDSE-3000 Principles of Teaching AYA Learners EDSE-4450 Adolescent/Young Adult Field Experience EDSE-4900 Student Teaching and Seminar: AYA EDSP-4250 Communication, Collaboration and Inclusion. EDUC-3100 Philosophical Foundations of Education SCED-3110 Clinical Teaching in Science. SCED-3120 Teaching Science | 34 |
| BTGÉ-3755 Theology I BTGE-3765 Theology II BIO-3300 Genetics BIO-3710 Biochemistry EDUC-3200 Faith and Learning Alignment GSCI-1010 Principles of Earth Science HUM-1400 Introduction to the Humanities. PHYS-1010 College Physics I Biology Electives LIT-2XXX Literature Elective Social Science/Global Awareness Elective Total Fourth year: BIO-4800 Senior Seminar-Biology. EDSE-4000 Reading in the Content Area: AYA EDSE-3000 Principles of Teaching AYA Learners EDSE-4450 Adolescent/Young Adult Field Experience EDSE-4900 Student Teaching and Seminar: AYA EDSP-4250 Communication, Collaboration and Inclusion. EDUC-3100 Philosophical Foundations of Education SCED-3110 Clinical Teaching in Science. | 3 |

Department of Science and Mathematics Mathematics Education — Integrated

Mathematics Education — Integrated (Bachelor of Arts)

| Course requirements involve 52 semester hours including: Mathematics Core Requirements | 42 |
|---|--------|
| MATH-1710 Calculus I | .42 |
| MATH-1720 Calculus II | |
| MATH-1990 Beautiful Math Structures and Thinking | |
| MATH-2210 Logic and Methods of Proof | , |
| MATH-2710 Calculus III | , R |
| *MATH-3050 Algebraic Structures for Secondary Education 4 | |
| MATH-3110 Probability and Statistics I | |
| MATH-3800 Research Methods in Mathematics | |
| MATH-4410 Euclidean and Non-Euclidean Geometry | |
| **MATH-4800 Capstone Experience in Mathematics | |
| 3XXX or 4XXX Mathematics electives | |
| One course selected from the following | |
| MATH-3550 Discrete Mathematics: Graph Theory3 | • |
| MATH-3560 Discrete Mathematics: Combinatorics3 | |
| PHYS-2120 General Physics II4 | |
| Any MATH-XXXX course not already required3 | |
| Computer/Math Methods/Physics | 10 |
| CS-1210 C++ Programming | |
| MATH-2800 LaTeX for Technical Documents | |
| MTED-3120 Teaching Mathematics | 2 |
| PHYS-2110 General Physics I | , |
| Teacher Education | |
| *A student may replace MATH-3050 by taking MATH-3500, MATH-3610, and | .41 |
| MATH-4610. | |
| | |
| **Capstone Course | |
| Mathematics Education — Integrated Major (B.A.) Summar Proficiency Requirements | 0–5 |
| General Education Requirements 415_4 | 9.5 |





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: | |
|--|--|
| BTGÉ-1720 Spiritual Formation | 3 |
| COM-1100 Fundamentals of Speech | 3 |
| CS-1210 C++ Programming | . 2 |
| EDUC-1000 The Education Profession. | 2 |
| EDUC-1050 Preliminary Student Involvement | |
| ENG-1400 Composition | |
| GBIO-1000 Principles of Biology | 3.5 |
| MATH-1710, 1720 Calculus I and II | |
| 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 | |
| Total | |
| Total | 2.3 |
| Second year: | |
| BTGE-2730 Old Testament Literature | |
| BTGE-2740 New Testament Literature | 3 |
| EDSP-2100 Exceptionalities and Behavior | 2 |
| EDUC-2050 Teaching Diverse Learners | |
| EDUC-2100 e-Learning for Educators | |
| EDUC-2300 Assessment and Differentiation | 2 |
| EDUC-2500 Educational Psychology | |
| GSS-1100 Politics and American Culture | 3 |
| MATH-2210 Logic and Methods of Proof | |
| MATH-2710 Calculus III | |
| MATH-3800 Research Methods in Mathematics | - 1 |
| | |
| PHVS-2110 General Physics I | |
| PHYS-2110 General Physics I | |
| PHYS-2110 General Physics I | |
| Total Third year: | 32 |
| Total | 32 |
| Total Third year: BTGE-3755 Theology I BTGE-3765 Theology II | 3 3 |
| Total | 3 3 |
| Total Third year: BTGE-3755 Theology I BTGE-3765 Theology II | 3 3 |
| Total Third year: BTGE-3755 Theology I BTGE-3765 Theology II EDUC-3200 Faith and Learning Alignment HUM-1400 Introduction to the Humanities LIT-2XXX Literature Elective. | 3 3 1 3 |
| Total Third year: BTGE-3755 Theology I | 3 3 1 3 |
| Total Third year: BTGE-3755 Theology I | 3 3 1 3 |
| Total Third year: BTGE-3755 Theology I BTGE-3765 Theology II EDUC-3200 Faith and Learning Alignment HUM-1400 Introduction to the Humanities LIT-2XXX Literature Elective. | 3 3 1 3 4 |
| Total Third year: BTGE-3755 Theology I | 3 3 1 3 4 3 |
| Total Third year: BTGE-3755 Theology I | 3 3 1 3 4 3 |
| Total Third year: BTGE-3755 Theology I | 3 3 3 3 3 3 |
| Total Third year: BTGE-3755 Theology I | 3 3 3 3 3 3 3 |
| Total Third year: BTGE-3755 Theology I BTGE-3765 Theology II EDUC-3200 Faith and Learning Alignment HUM-1400 Introduction to the Humanities LIT-2XXX Literature Elective MATH-3050 Algebraic Structures for Secondary Education MATH-3110 Probability and Statistics I MATH-4410 Euclidean and Non-Euclidean Geometry One Course – Discrete Mathematics or Physics Elective MATH-3XXX or 4XXX Elective Social Science/Global Awareness Elective Total | 3 3 3 3 3 3 3 |
| Total Third year: BTGE-3755 Theology I | 3 3 3 3 3 3 3 3 3 |
| Total Third year: BTGE-3755 Theology I | 3 3 3 3 3 3 3 3 3 |
| Total Third year: BTGE-3755 Theology I | 3 3 3 3 3 3 3 3 3 3 |
| Third year: BTGE-3755 Theology I | 3 3 3 3 3 3 3 3 |
| Third year: BTGE-3755 Theology I | 3 3 3 3 3 3 3 3 |
| Total Third year: BTGE-3755 Theology I | 3 3 3 3 3 3 3 3 |
| Third year: BTGE-3755 Theology I | 3 3 3 3 3 3 3 3 |
| Third year: BTGE-3755 Theology I | 3 3 3 3 3 3 3 3 |
| Third year: BTGE-3755 Theology I | 3 3 3 3 3 3 3 3 |
| Third year: BTGE-3755 Theology I | 3 3 3 3 3 3 3 3 |

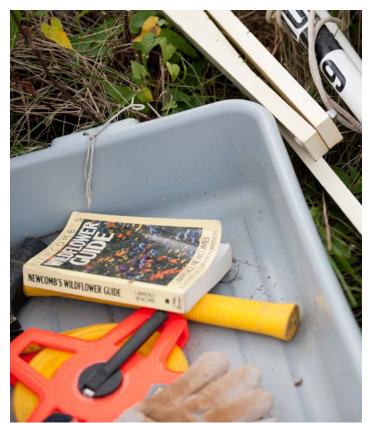
Department of Science and Mathematics Physical Science Education

Physical Science Education (Bachelor of Arts)

| Course requirements involve 69.5 semester hours including: |
|--|
| Physical Science Core69.5 |
| GBIO-1000 Principles of Biology |
| (or BIO-1110 Introduction to Biology4) |
| CHEM-1110, 1120 General Chemistry I and II8 |
| CHEM-3510 Organic Chemistry I4 |
| CHEM-3710 Biochemistry4 |
| GEOL-1110 Introduction to Physical Geology4 |
| GEOL-1120 Historical Geology4 |
| ESCI-2310 Introduction to Oceanography4 |
| ESCI-2510 Introductory Astronomy4 |
| MATH-1710, 1720 Calculus I and II 10 |
| MATH-2740 Differential Equations |
| PHYS-2110, 2120, 2130 General Physics I, II, and III 10 |
| PHYS-3110 Intermediate Physics Lab2 |
| PHYS-3510 Modern Physics3 |
| SCED-3110 Clinical Teaching in Science |
| SCED-3120 Teaching Science |
| Research methods selected from the following 1 |
| CHEM-2800 Introduction to Research in Chemistry1 |
| PHYS-3800 Research Methods in Physics1 |
| Senior capstone experience selected from the following 1 |
| *CHEM-4800 Senior Seminar — Chemistry1 |
| *PHYS-4800 Senior Seminar — Physics1 |
| Teacher Education41 |
| *Capstone Course |

Physical Science Education Curriculum Summary

| Proficiency Requirements | 0-5 |
|---|-------|
| General Education Requirements | 38-46 |
| Physical Science Education Major Requirements | |
| Teacher Education Requirements | 41 |
| 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.

| ### BTGE-1720 Spiritual Formation | e |
|--|---|
| CHEM-1110, 1120 General Chemistry I and II | First year: |
| COM-1100 Fundamentals of Speech 3 EDUC-1050 Preliminary Student Involvement 0 EDUC-1050 Preliminary Student Involvement 0 ENG-1400 Composition 3 MATH-1710, 1720 Calculus I and II 10 PEF-1990 Physical Activity and the Christian Life 2 PHYS-2110 General Physics I 4 Total 35 Second year: 3 BTGE-2740 New Testament Literature 3 BTGE-2740 New Testament Literature 3 BGBO-1000 Principles of Biology 3.5 (or BIO-1110 Introduction to Biology 4 CHEM-3510 Organic Chemistry I 4 EDSP-2100 Exceptionalities and Behavior 2 EDUC-2050 Teaching Diverse Learners 2 EDUC-2300 Assessment and Differentiation 2 EDUC-2300 Educational Psychology 3 ESCI-2310 Introduction to Oceanography 4 MATH-2740 Differential Equations 3 PHYS-2120, 2130 General Physics II and III 6 Total 38.5 Third year: 3 BTGE-3755 Theology I | BTGE-1720 Spiritual Formation3 |
| COM-1100 Fundamentals of Speech 3 EDUC-1050 Preliminary Student Involvement 0 EDUC-1050 Preliminary Student Involvement 0 ENG-1400 Composition 3 MATH-1710, 1720 Calculus I and II 10 PEF-1990 Physical Activity and the Christian Life 2 PHYS-2110 General Physics I 4 Total 35 Second year: 3 BTGE-2740 New Testament Literature 3 BTGE-2740 New Testament Literature 3 BGBO-1000 Principles of Biology 3.5 (or BIO-1110 Introduction to Biology 4 CHEM-3510 Organic Chemistry I 4 EDSP-2100 Exceptionalities and Behavior 2 EDUC-2050 Teaching Diverse Learners 2 EDUC-2300 Assessment and Differentiation 2 EDUC-2300 Educational Psychology 3 ESCI-2310 Introduction to Oceanography 4 MATH-2740 Differential Equations 3 PHYS-2120, 2130 General Physics II and III 6 Total 38.5 Third year: 3 BTGE-3755 Theology I | CHEM-1110, 1120 General Chemistry I and II8 |
| EDUC-1000 The Education Profession 2 | COM-1100 Fundamentals of Speech 3 |
| EDUC-1050 Preliminary Student Involvement | |
| ENG-1400 Composition | |
| MATH-1710, 1720 Calculus I and II | EDOC-1050 Preliminary Student involvement |
| PEF-1990 Physical Activity and the Christian Life | ENG-1400 Composition3 |
| PHYS-2110 General Physics | MATH-1710, 1720 Calculus I and II |
| PHYS-2110 General Physics | PEF-1990 Physical Activity and the Christian Life2 |
| Sceond year: STGE-2730 Old Testament Literature | PHYS-2110 General Physics I4 |
| Second year: BTGE-2730 Old Testament Literature | |
| BTGE-2730 Old Testament Literature 3 BTGE-2740 New Testament Literature 3 GBIO-1000 Principles of Biology 3.5 (or BIO-1110 Introduction to Biology 4) CHEM-3510 Organic Chemistry I 4 EDSP-2100 Exceptionalities and Behavior 2 EDUC-2050 Teaching Diverse Learners 2 EDUC-2100 e-Learning for Educators 3 BDUC-2300 Assessment and Differentiation 2 EDUC-2301 Introduction to Oceanography 4 MATH-2740 Differential Equations 3 BESCI-2310 Introduction to Oceanography 4 MATH-2740 Differential Equations 3 PHYS-2120, 2130 General Physics II and III 6 Total 38.5 Third year: 8 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CHEM-3710 Biochemistry 4 ESCI-2510 Introduction to Astronomy 4 EDUC-3200 Faith and Learning Alignment 1 GEOL-1110 Introduction to Physical Geology 4 HUM-1400 Introduction to Physical Geology 4 <td< td=""><td>10tal</td></td<> | 10tal |
| BTGE-2730 Old Testament Literature 3 BTGE-2740 New Testament Literature 3 GBIO-1000 Principles of Biology 3.5 (or BIO-1110 Introduction to Biology 4) CHEM-3510 Organic Chemistry I 4 EDSP-2100 Exceptionalities and Behavior 2 EDUC-2050 Teaching Diverse Learners 2 EDUC-2100 e-Learning for Educators 3 BDUC-2300 Assessment and Differentiation 2 EDUC-2301 Introduction to Oceanography 4 MATH-2740 Differential Equations 3 BESCI-2310 Introduction to Oceanography 4 MATH-2740 Differential Equations 3 PHYS-2120, 2130 General Physics II and III 6 Total 38.5 Third year: 8 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CHEM-3710 Biochemistry 4 ESCI-2510 Introduction to Astronomy 4 EDUC-3200 Faith and Learning Alignment 1 GEOL-1110 Introduction to Physical Geology 4 HUM-1400 Introduction to Physical Geology 4 <td< td=""><td>Second year:</td></td<> | Second year: |
| ### BTGE-2740 New Testament Literature ### 3 ### GBIO-1000 Principles of Biology ### 3.5 ### (or BIO-1110 Introduction to Biology ### 3.5 ### (or BIO-1110 Introduction to Biology ### 3.5 ### (or BIO-1110 Introduction to Biology ### 3.5 ### (CHEM-3510 Organic Chemistry I ## 4 ### EDSP-2100 Exceptionalities and Behavior ## 2 ### EDUC-2050 Teaching Diverse Learners ## 2 ### EDUC-2050 Teaching Diverse Learners ## 2 ### EDUC-2100 e-Learning for Educators ## 3 ### BEDUC-2500 Educational Psychology ## 3 ### BEDUC-2500 Educational Psychology ## 3 ### BEDUC-2500 Educational Psychology ## 3 ### BECI-2310 Introduction to Oceanography ## 4 ### ## ## 4 ## 4 ## 4 ## 4 ## 4 # | |
| GBIO-1000 Principles of Biology 3.5 (or BIO-1110 Introduction to Biology 4) CHEM-3510 Organic Chemistry I 4 EDSP-2100 Exceptionalities and Behavior 2 EDUC-2050 Teaching Diverse Learners 2 EDUC-2100 e-Learning for Educators 3 BDUC-2300 Assessment and Differentiation 2 EDUC-2500 Educational Psychology 3 ESCI-2310 Introduction to Oceanography 4 MATH-2740 Differential Equations 3 SSCI-2310, 2130 General Physics II and III 6 Total 38.5 Third year: 8 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CHEM-3710 Biochemistry 4 ESCI-2510 Introduction to Astronomy 4 EDUC-3200 Faith and Learning Alignment 1 GEOL-1110 Introduction to Physical Geology 4 HUM-1400 Introduction to the Humanities 3 PHYS-3510 Modern Physics 3 1 (or CHEM-2800 Introduction to Research in Chemistry 1) History Elective 3 Social Science/Global Awareness Elective 3 Social | |
| (or BIO-1110 Introduction to Biology .4) CHEM-3510 Organic Chemistry I .4 EDSP-2100 Exceptionalities and Behavior .2 EDUC-2050 Teaching Diverse Learners .2 EDUC-2100 e-Learning for Educators .3 EDUC-2300 Assessment and Differentiation .2 EDUC-2500 Educational Psychology .3 ESCI-2310 Introduction to Oceanography .4 MATH-2740 Differential Equations .3 BYS-2120, 2130 General Physics II and III .6 Total .38.5 Third year: .8 BTGE-3755 Theology I .3 BTGE-3765 Theology II .3 CHEM-3710 Biochemistry .4 ESCI-2510 Introduction to Astronomy .4 EDUC-3200 Faith and Learning Alignment .1 GEOL-1110 Introduction to Physical Geology .4 HUM-1400 Introduction to the Humanities .3 PHYS-3800 Research Methods in Physics .3 I (or CHEM-2800 Introduction to Research in Chemistry .1 History Elective .3 Social Science/Global Awareness Elective .3 | |
| CHEM-3510 Organic Chemistry I 4 EDSP-2100 Exceptionalities and Behavior 2 EDUC-2050 Teaching Diverse Learners 2 EDUC-2100 e-Learning for Educators 3 EDUC-2300 Assessment and Differentiation 2 EDUC-2500 Educational Psychology 3 SECI-2310 Introduction to Oceanography 4 MATH-2740 Differential Equations 3 PHYS-2120, 2130 General Physics II and III 6 Total 38.5 Third year: BTGE-3755 Theology I BTGE-3765 Theology II 3 BTGE-3765 Theology II 3 CHEM-3710 Biochemistry 4 ESCI-2510 Introduction to Astronomy 4 EDUC-3200 Faith and Learning Alignment 1 GEOL-1110 Introduction to Physical Geology 4 HUM-1400 Introduction to the Humanities 3 PHYS-3510 Modern Physics 3 PHYS-3800 Research Methods in Physics 1 (or CHEM-2800 Introduction to Research in Chemistry 1) History Elective 3 Social Science/Global Awareness Elective 3 | |
| EDSP-2100 Exceptionalities and Behavior 2 EDUC-2050 Teaching Diverse Learners 2 EDUC-2500 e-Learning for Educators 3 EDUC-2500 Assessment and Differentiation 2 EDUC-2500 Educational Psychology 3 ESCI-2310 Introduction to Oceanography 4 MATH-2740 Differential Equations 3 3PHYS-2120, 2130 General Physics II and III 6 Total 38.5 Third year: BTGE-3755 Theology I BTGE-3765 Theology II 3 CHEM-3710 Biochemistry 4 ESCI-2510 Introduction to Astronomy 4 EDUC-3200 Faith and Learning Alignment 1 GEOL-1110 Introduction to Physical Geology 4 HUM-1400 Introduction to the Humanities 3 PHYS-3510 Modern Physics 3 PHYS-3800 Research Methods in Physics 1 (or CHEM-2800 Introduction to Research in Chemistry 1) History Elective 3 Social Science/Global Awareness Elective 3 Social Science/Global Awareness Elective 3 FOURTH year: 2 <tr< td=""><td>(or BIO-1110 Introduction to Biology4)</td></tr<> | (or BIO-1110 Introduction to Biology4) |
| EDSP-2100 Exceptionalities and Behavior 2 EDUC-2050 Teaching Diverse Learners 2 EDUC-2500 e-Learning for Educators 3 EDUC-2500 Assessment and Differentiation 2 EDUC-2500 Educational Psychology 3 ESCI-2310 Introduction to Oceanography 4 MATH-2740 Differential Equations 3 3PHYS-2120, 2130 General Physics II and III 6 Total 38.5 Third year: BTGE-3755 Theology I BTGE-3765 Theology II 3 CHEM-3710 Biochemistry 4 ESCI-2510 Introduction to Astronomy 4 EDUC-3200 Faith and Learning Alignment 1 GEOL-1110 Introduction to Physical Geology 4 HUM-1400 Introduction to the Humanities 3 PHYS-3510 Modern Physics 3 PHYS-3800 Research Methods in Physics 1 (or CHEM-2800 Introduction to Research in Chemistry 1) History Elective 3 Social Science/Global Awareness Elective 3 Social Science/Global Awareness Elective 3 FOURTH year: 2 <tr< td=""><td>CHEM-3510 Organic Chemistry I4</td></tr<> | CHEM-3510 Organic Chemistry I4 |
| EDUC-2050 Teaching Diverse Learners 2 EDUC-2100 e-Learning for Educators 3 EDUC-2300 Assessment and Differentiation 2 EDUC-2500 Educational Psychology 3 SSCI-2310 Introduction to Oceanography 4 MATH-2740 Differential Equations 3 3PHYS-2120, 2130 General Physics II and III 6 Total 38.5 Third year: 3 BTGE-3755 Theology I 3 BTGE-3765 Theology I 3 CHEM-3710 Biochemistry 4 ESCI-2510 Introduction to Astronomy 4 EDUC-3200 Faith and Learning Alignment 1 GEOL-1110 Introduction to Physical Geology 4 GEOL-1120 Historical Geology 4 HUM-1400 Introduction to the Humanities 3 3PHYS-3510 Modern Physics 3 (or CHEM-2800 Introduction to Research in Chemistry 1 History Elective 3 Social Science/Global Awareness Elective 3 Social Science/Global Awareness Elective 3 FOUTH year: 2 EDSE-4000 Reading in the Content Ar | |
| EDUC-2100 e-Learning for Educators 3 EDUC-2300 Assessment and Differentiation 2 EDUC-2500 Educational Psychology 3 ESCI-2310 Introduction to Oceanography 4 MATH-2740 Differential Equations 3 PHYS-2120, 2130 General Physics II and III 6 Total 38.5 Third year: 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CHEM-3710 Biochemistry 4 ESCI-2510 Introduction to Astronomy 4 EDUC-3200 Faith and Learning Alignment 1 GEOL-1110 Introduction to Physical Geology 4 HUM-1400 Introduction to the Humanities 3 PHYS-3510 Modern Physics 3 (or CHEM-2800 Introduction to Research in Chemistry 1) History Elective 3 Social Science/Global Awareness Elective 3 Total 39 Fourth year: EDSE-4000 Reading in the Content Area: AYA 3 EDSE-4000 Reading in the Content Area: AYA 3 EDSE-4000 Student Teaching and Seminar: AYA 12 <t< td=""><td></td></t<> | |
| EDUC-2300 Assessment and Differentiation 2 EDUC-2500 Educational Psychology 3 SECI-2310 Introduction to Oceanography 4 MATH-2740 Differential Equations 3 PHYS-2120, 2130 General Physics II and III 6 Total 38.5 Third year: 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CHEM-3710 Biochemistry 4 ESCI-2510 Introduction to Astronomy 4 EDUC-3200 Faith and Learning Alignment 1 GEOL-1110 Introduction to Physical Geology 4 GEOL-1120 Historical Geology 4 HUM-1400 Introduction to the Humanities 3 PHYS-3510 Modern Physics 3 3PHYS-3800 Research Methods in Physics 1 (or CHEM-2800 Introduction to Research in Chemistry 1) History Elective 3 LIT-2XXX Literature Elective 3 Social Science/Global Awareness Elective 3 Total 39 Fourth year: 4 EDSE-4000 Reading in the Content Area: AYA 3 | EDLIC 2100 a Learning for Educators |
| EDUC-2500 Educational Psychology 3 ESCI-2310 Introduction to Oceanography 4 MATH-2740 Differential Equations 3 PHYS-2120, 2130 General Physics II and III 6 Total 38.5 Third year: 8 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CHEM-3710 Biochemistry 4 ESCI-2510 Introduction to Astronomy 4 EDUC-3200 Faith and Learning Alignment 1 GEOL-1110 Introduction to Physical Geology 4 HUM-1400 Introduction to the Humanities 3 PHYS-3510 Modern Physics 3 PHYS-3800 Research Methods in Physics 1 (or CHEM-2800 Introduction to Research in Chemistry 1) History Elective 3 Social Science/Global Awareness Elective 3 Total 39 Fourth year: EDSE-4000 Reading in the Content Area: AYA 3 EDSE-4000 Principles of Teaching AYA Learners 4 EDSE-4900 Student Teaching and Seminar: AYA 12 EDSE-4900 Student Teaching and Seminar: AYA 12 EDSE-4900 Philosophical Foundations of Education < | |
| ESCI-2310 Introduction to Oceanography 4 MATH-2740 Differential Equations 3 PHYS-2120, 2130 General Physics II and III 6 Total 38.5 Third year: 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CHEM-3710 Biochemistry 4 ESCI-2510 Introduction to Astronomy 4 EDUC-3200 Faith and Learning Alignment 1 GEOL-1110 Introduction to Physical Geology 4 HUM-1400 Introduction to the Humanities 3 PHYS-3510 Modern Physics 3 3PHYS-3800 Research Methods in Physics 1 (or CHEM-2800 Introduction to Research in Chemistry 1) History Elective 3 Social Science/Global Awareness Elective 3 Social Science/Global Awareness Elective 3 Total 3 EDSE-4000 Reading in the Content Area: AYA 3 EDSE-4900 Student Teaching and Seminar: AYA 12 EDSE-4900 Student Teaching and Seminar: AYA 12 EDSE-4900 Philosophical Foundations of Education 3 GSS-1100 Politics and American Culture 3 <tr< td=""><td></td></tr<> | |
| MATH-2740 Differential Equations 3 PHYS-2120, 2130 General Physics II and III 6 Total 38.5 Third year: 3 BTGE-3755 Theology II 3 CHEM-3710 Biochemistry 4 ESCI-2510 Introduction to Astronomy 4 EDUC-3200 Faith and Learning Alignment 1 GEOL-1110 Introduction to Physical Geology 4 HUM-1400 Introduction to the Humanities 3 PHYS-3510 Modern Physics 3 PHYS-3800 Research Methods in Physics 1 (or CHEM-2800 Introduction to Research in Chemistry 1) History Elective 3 Social Science/Global Awareness Elective 3 Social Science/Global Awareness Elective 3 Total 39 Fourth year: EDSE-4000 Reading in the Content Area: AYA 3 EDSE-4000 Student Teaching AYA Learners 4 EDSE-4900 Student Teaching and Seminar: AYA 12 EDSE-4900 Communication, Collaboration and Inclusion 2 EDUC-3100 Philosophical Foundations of Education 3 GSS-1100 Politics and American Culture 3 PHYS-3110 Intermediate | EDUC-2500 Educational Psychology3 |
| PHYS-2120, 2130 General Physics II and III 6 Total 38.5 Third year: 3 BTGE-3755 Theology II 3 CHEM-3710 Biochemistry 4 ESCI-2510 Introduction to Astronomy 4 EDUC-3200 Faith and Learning Alignment 1 GEOL-1110 Introduction to Physical Geology 4 HUM-1400 Introduction to the Humanities 3 PHYS-3510 Modern Physics 3 PHYS-3800 Research Methods in Physics 1 (or CHEM-2800 Introduction to Research in Chemistry 1) History Elective 3 Social Science/Global Awareness Elective 3 Total 39 Fourth year: EDSE-4000 Reading in the Content Area: AYA 3 EDSE-3000 Principles of Teaching AYA Learners 4 EDSE-4450 Adolescent/Young Adult Field Experience 2 EDSE-4900 Student Teaching and Seminar: AYA 12 EDSP-4250 Communication, Collaboration and Inclusion 2 EDUC-3100 Philosophical Foundations of Education 3 GSS-1100 Politics and American Culture 3 GSS-1100 Politics and American Culture 3 PH | ESCI-2310 Introduction to Oceanography4 |
| PHYS-2120, 2130 General Physics II and III 6 Total 38.5 Third year: 3 BTGE-3755 Theology II 3 CHEM-3710 Biochemistry 4 ESCI-2510 Introduction to Astronomy 4 EDUC-3200 Faith and Learning Alignment 1 GEOL-1110 Introduction to Physical Geology 4 HUM-1400 Introduction to the Humanities 3 PHYS-3510 Modern Physics 3 PHYS-3800 Research Methods in Physics 1 (or CHEM-2800 Introduction to Research in Chemistry 1) History Elective 3 Social Science/Global Awareness Elective 3 Total 39 Fourth year: EDSE-4000 Reading in the Content Area: AYA 3 EDSE-3000 Principles of Teaching AYA Learners 4 EDSE-4450 Adolescent/Young Adult Field Experience 2 EDSE-4900 Student Teaching and Seminar: AYA 12 EDSP-4250 Communication, Collaboration and Inclusion 2 EDUC-3100 Philosophical Foundations of Education 3 GSS-1100 Politics and American Culture 3 GSS-1100 Politics and American Culture 3 PH | MATH-2740 Differential Equations |
| Total 38.5 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CHEM-3710 Biochemistry 4 ESCI-2510 Introduction to Astronomy 4 EDUC-3200 Faith and Learning Alignment 1 GEOL-1110 Introduction to Physical Geology 4 HUM-1400 Historical Geology 4 HUM-1400 Introduction to the Humanities 3 PHYS-3510 Modern Physics 3 PHYS-3800 Research Methods in Physics 1 (or CHEM-2800 Introduction to Research in Chemistry 1) History Elective 3 Social Science/Global Awareness Elective 3 Social Science/Global Awareness Elective 3 Total 39 Fourth year: EDSE-4000 Reading in the Content Area: AYA 3 EDSE-4000 Reading in the Content Area: AYA 3 EDSE-4900 Student Teaching and Seminar: AYA 12 EDSP-4250 Communication, Collaboration and Inclusion 2 EDUC-3100 Philosophical Foundations of Education 3 GSS-1100 Politics and American Culture 3 <td< td=""><td></td></td<> | |
| ### Third year: ### BTGE-3755 Theology I ### BTGE-3765 Theology II ### SCI-2510 Introduction to Astronomy ### Ast | |
| BTGÉ-3755 Theology I 3 BTGE-3765 Theology II 3 CHEM-3710 Biochemistry 4 ESCI-2510 Introduction to Astronomy 4 EDUC-3200 Faith and Learning Alignment 1 GEOL-1110 Introduction to Physical Geology 4 GEOL-1120 Historical Geology 4 HUM-1400 Introduction to the Humanities 3 PHYS-3510 Modern Physics 3 PHYS-3800 Research Methods in Physics 1 (or CHEM-2800 Introduction to Research in Chemistry 1) History Elective 3 Social Science/Global Awareness Elective 3 Social Science/Global Awareness Elective 3 Total 39 Fourth year: EDSE-4000 Reading in the Content Area: AYA 3 EDSE-4000 Principles of Teaching AYA Learners 4 EDSE-4900 Student Teaching and Seminar: AYA 12 EDSP-4250 Communication, Collaboration and Inclusion 2 EDUC-3100 Philosophical Foundations of Education 3 GSS-1100 Politics and American Culture 3 GSS-1100 Politics and American Culture 3 PHYS-4800 Senior Seminar — Physics 1 | 10.00 |
| BTGÉ-3755 Theology I 3 BTGE-3765 Theology II 3 CHEM-3710 Biochemistry 4 ESCI-2510 Introduction to Astronomy 4 EDUC-3200 Faith and Learning Alignment 1 GEOL-1110 Introduction to Physical Geology 4 GEOL-1120 Historical Geology 4 HUM-1400 Introduction to the Humanities 3 PHYS-3510 Modern Physics 3 PHYS-3800 Research Methods in Physics 1 (or CHEM-2800 Introduction to Research in Chemistry 1) History Elective 3 Social Science/Global Awareness Elective 3 Social Science/Global Awareness Elective 3 Total 39 Fourth year: EDSE-4000 Reading in the Content Area: AYA 3 EDSE-4000 Principles of Teaching AYA Learners 4 EDSE-4900 Student Teaching and Seminar: AYA 12 EDSP-4250 Communication, Collaboration and Inclusion 2 EDUC-3100 Philosophical Foundations of Education 3 GSS-1100 Politics and American Culture 3 GSS-1100 Politics and American Culture 3 PHYS-4800 Senior Seminar — Physics 1 | Third year: |
| BTGE-3765 Theology II 3 CHEM-3710 Biochemistry 4 ESCI-2510 Introduction to Astronomy 4 EDUC-3200 Faith and Learning Alignment 1 GEOL-1110 Introduction to Physical Geology 4 HUM-1400 Introduction to the Humanities 3 PHYS-3510 Modern Physics 3 PHYS-3800 Research Methods in Physics 1 (or CHEM-2800 Introduction to Research in Chemistry 1) History Elective 3 LIT-2XXX Literature Elective 3 Social Science/Global Awareness Elective 3 Total 39 Fourth year: EDSE-4000 Reading in the Content Area: AYA 3 EDSE-3000 Principles of Teaching AYA Learners 4 EDSE-4900 Student Teaching and Seminar: AYA 12 EDSP-4250 Communication, Collaboration and Inclusion 2 EDUC-3100 Philosophical Foundations of Education 3 GSS-1100 Politics and American Culture 3 GSS-1101 Intermediate Physics Lab 2 PHYS-4800 Senior Seminar — Physics 1 (or CHEM-4800 Senior Seminar — Chemistry 1) SCED-3110 Clinical Teaching in Science 3 < | BTGF-3755 Theology I |
| CHEM-3710 Biochemistry | |
| ESCI-2510 Introduction to Astronomy | |
| EDUC-3200 Faith and Learning Alignment 1 GEOL-1110 Introduction to Physical Geology 4 GEOL-1120 Historical Geology 4 HUM-1400 Introduction to the Humanities 3 PHYS-3510 Modern Physics 3 PHYS-3800 Research Methods in Physics 1 (or CHEM-2800 Introduction to Research in Chemistry 1) History Elective 3 Social Science/Global Awareness Elective 3 Social Science/Global Awareness Elective 3 Fourth year: EDSE-4000 Reading in the Content Area: AYA 3 EDSE-3000 Principles of Teaching AYA Learners 4 EDSE-4450 Adolescent/Young Adult Field Experience 2 EDSE-4900 Student Teaching and Seminar: AYA 12 EDSP-4250 Communication, Collaboration and Inclusion 2 EDUC-3100 Philosophical Foundations of Education 3 GSS-1100 Politics and American Culture 3 BHYS-3110 Intermediate Physics Lab 2 PHYS-4800 Senior Seminar — Physics 1 (or CHEM-4800 Senior Seminar — Chemistry 1) SCED-3110 Clinical Teaching in Science 3 | |
| GEOL-1110 Introduction to Physical Geology 4 GEOL-1120 Historical Geology 4 HUM-1400 Introduction to the Humanities 3 PHYS-3510 Modern Physics 3 PHYS-3800 Research Methods in Physics 1 (or CHEM-2800 Introduction to Research in Chemistry 1) History Elective 3 Social Science/Global Awareness Elective 3 Social Science/Global Awareness Elective 3 Fourth year: EDSE-4000 Reading in the Content Area: AYA 3 EDSE-3000 Principles of Teaching AYA Learners 4 EDSE-4450 Adolescent/Young Adult Field Experience 2 EDSE-4900 Student Teaching and Seminar: AYA 12 EDSP-4250 Communication, Collaboration and Inclusion 2 EDUC-3100 Philosophical Foundations of Education 3 GSS-1100 Politics and American Culture 3 GSS-1100 Politics and American Culture 3 PHYS-3110 Intermediate Physics Lab 2 PHYS-4800 Senior Seminar — Physics 1 (or CHEM-4800 Senior Seminar — Chemistry 1) SCED-3110 Clinical Teaching in Science 3 | |
| GEOL-1120 Historical Geology 4 HUM-1400 Introduction to the Humanities 3 PHYS-3510 Modern Physics 3 PHYS-3800 Research Methods in Physics 1 (or CHEM-2800 Introduction to Research in Chemistry 1) History Elective 3 LIT-2XXX Literature Elective 3 Social Science/Global Awareness Elective 3 Fourth year: EDSE-4000 Reading in the Content Area: AYA 3 EDSE-3000 Principles of Teaching AYA Learners 4 EDSE-4450 Adolescent/Young Adult Field Experience 2 EDSE-4900 Student Teaching and Seminar: AYA 12 EDSP-4250 Communication, Collaboration and Inclusion 2 EDUC-3100 Philosophical Foundations of Education 3 GSS-1100 Politics and American Culture 3 BHYS-3110 Intermediate Physics Lab 2 PHYS-4800 Senior Seminar — Physics 1 (or CHEM-4800 Senior Seminar — Chemistry 1) SCED-3110 Clinical Teaching in Science 3 | |
| HUM-1400 Introduction to the Humanities | GEOL-1110 Introduction to Physical Geology4 |
| PHYS-3510 Modern Physics 3 PHYS-3800 Research Methods in Physics 1 (or CHEM-2800 Introduction to Research in Chemistry 1) History Elective 3 LIT-2XXX Literature Elective 3 Social Science/Global Awareness Elective 3 Total 39 Fourth year: EDSE-4000 Reading in the Content Area: AYA 3 EDSE-3000 Principles of Teaching AYA Learners 4 EDSE-4450 Adolescent/Young Adult Field Experience 2 EDSE-4900 Student Teaching and Seminar: AYA 12 EDSP-4250 Communication, Collaboration and Inclusion 2 EDUC-3100 Philosophical Foundations of Education 3 GSS-1100 Politics and American Culture 3 BHYS-3110 Intermediate Physics Lab 2 PHYS-4800 Senior Seminar Physics 1 (or CHEM-4800 Senior Seminar Chemistry 1) SCED-3110 Clinical Teaching in Science 1 SCED-3120 Teaching Science 3 | GEOL-1120 Historical Geology4 |
| PHYS-3510 Modern Physics 3 PHYS-3800 Research Methods in Physics 1 (or CHEM-2800 Introduction to Research in Chemistry 1) History Elective 3 LIT-2XXX Literature Elective 3 Social Science/Global Awareness Elective 3 Total 39 Fourth year: EDSE-4000 Reading in the Content Area: AYA 3 EDSE-3000 Principles of Teaching AYA Learners 4 EDSE-4450 Adolescent/Young Adult Field Experience 2 EDSE-4900 Student Teaching and Seminar: AYA 12 EDSP-4250 Communication, Collaboration and Inclusion 2 EDUC-3100 Philosophical Foundations of Education 3 GSS-1100 Politics and American Culture 3 BHYS-3110 Intermediate Physics Lab 2 PHYS-4800 Senior Seminar Physics 1 (or CHEM-4800 Senior Seminar Chemistry 1) SCED-3110 Clinical Teaching in Science 1 SCED-3120 Teaching Science 3 | |
| PHYS-3800 Research Methods in Physics 1 (or CHEM-2800 Introduction to Research in Chemistry 1) History Elective 3 LT-2XXX Literature Elective 3 Social Science/Global Awareness Elective 3 Total 39 Fourth year: EDSE-4000 Reading in the Content Area: AYA 3 EDSE-3000 Principles of Teaching AYA Learners 4 EDSE-4450 Adolescent/Young Adult Field Experience 2 EDSE-4900 Student Teaching and Seminar: AYA 12 EDSP-4250 Communication, Collaboration and Inclusion 2 EDUC-3100 Philosophical Foundations of Education 3 GSS-1100 Politics and American Culture 3 PHYS-3110 Intermediate Physics Lab 2 PHYS-4800 Senior Seminar Physics 1 (or CHEM-4800 Senior Seminar Chemistry 1) SCED-3110 Clinical Teaching in Science 1 SCED-3120 Teaching Science 3 | |
| (or CHEM-2800 Introduction to Research in Chemistry | PHVS-3800 Research Methods in Physics |
| History Elective 3 LIT-2XXX Literature Elective 3 Social Science/Global Awareness Elective 3 Total 39 Fourth year: EDSE-4000 Reading in the Content Area: AYA 3 EDSE-3000 Principles of Teaching AYA Learners 4 EDSE-4450 Adolescent/Young Adult Field Experience 2 EDSE-4900 Student Teaching and Seminar: AYA 12 EDSP-4250 Communication, Collaboration and Inclusion 2 EDUC-3100 Philosophical Foundations of Education 3 GSS-1100 Politics and American Culture 3 PHYS-3110 Intermediate Physics Lab 2 PHYS-4800 Senior Seminar — Physics 1 (or CHEM-4800 Senior Seminar — Chemistry 1) SCED-3110 Clinical Teaching in Science 1 SCED-3120 Teaching Science 3 | /or CLIEM 2000 Introduction to Decearch in Chamistry 1) |
| LIT-2XXX Literature Elective 3 Social Science/Global Awareness Elective 3 Total 39 Fourth year: EDSE-4000 Reading in the Content Area: AYA 3 EDSE-3000 Principles of Teaching AYA Learners 4 EDSE-4450 Adolescent/Young Adult Field Experience 2 EDSE-4900 Student Teaching and Seminar: AYA 12 EDSP-4250 Communication, Collaboration and Inclusion 2 EDUC-3100 Philosophical Foundations of Education 3 GSS-1100 Politics and American Culture 3 PHYS-3110 Intermediate Physics Lab 2 PHYS-4800 Senior Seminar — Physics 1 (or CHEM-4800 Senior Seminar — Chemistry 1) SCED-3110 Clinical Teaching in Science 1 SCED-3120 Teaching Science 3 | (of Chemistry |
| Social Science/Global Awareness Elective 3 Total 39 Fourth year: EDSE-4000 Reading in the Content Area: AYA 3 EDSE-3000 Principles of Teaching AYA Learners 4 EDSE-4450 Adolescent/Young Adult Field Experience 2 EDSE-4900 Student Teaching and Seminar: AYA 12 EDSP-4250 Communication, Collaboration and Inclusion 2 EDUC-3100 Philosophical Foundations of Education 3 GSS-1100 Politics and American Culture 3 PHYS-3110 Intermediate Physics Lab 2 PHYS-4800 Senior Seminar — Physics 1 (or CHEM-4800 Senior Seminar — Chemistry 1) SCED-3110 Clinical Teaching in Science 1 SCED-3120 Teaching Science 3 | History Elective |
| Fourth year: EDSE-4000 Reading in the Content Area: AYA | LIT-2XXX Literature Elective3 |
| Fourth year: EDSE-4000 Reading in the Content Area: AYA | |
| EDSE-4000 Reading in the Content Area: AYA 3 EDSE-3000 Principles of Teaching AYA Learners 4 EDSE-4450 Adolescent/Young Adult Field Experience 2 EDSE-4900 Student Teaching and Seminar: AYA 12 EDSP-4250 Communication, Collaboration and Inclusion 2 EDUC-3100 Philosophical Foundations of Education 3 GSS-1100 Politics and American Culture 3 PHYS-3110 Intermediate Physics Lab 2 PHYS-4800 Senior Seminar Physics 1 (or CHEM-4800 Senior Seminar Chemistry 1) SCED-3110 Clinical Teaching in Science 1 SCED-3120 Teaching Science 3 | Total39 |
| EDSE-4000 Reading in the Content Area: AYA 3 EDSE-3000 Principles of Teaching AYA Learners 4 EDSE-4450 Adolescent/Young Adult Field Experience 2 EDSE-4900 Student Teaching and Seminar: AYA 12 EDSP-4250 Communication, Collaboration and Inclusion 2 EDUC-3100 Philosophical Foundations of Education 3 GSS-1100 Politics and American Culture 3 PHYS-3110 Intermediate Physics Lab 2 PHYS-4800 Senior Seminar Physics 1 (or CHEM-4800 Senior Seminar Chemistry 1) SCED-3110 Clinical Teaching in Science 1 SCED-3120 Teaching Science 3 | |
| EDSE-3000 Principles of Teaching AYA Learners | Fourth year: |
| EDSE-4450 Adolescent/Young Adult Field Experience | EDSE-4000 Reading in the Content Area: AYA |
| EDSE-4450 Adolescent/Young Adult Field Experience | EDSE-3000 Principles of Teaching AYA Learners4 |
| EDSE-4900 Student Teaching and Seminar: AYA | |
| EDSP-4250 Communication, Collaboration and Inclusion | EDSE-4900 Student Teaching and Seminar: AVA 12 |
| EDUC-3100 Philosophical Foundations of Education 3 GSS-1100 Politics and American Culture 3 PHYS-3110 Intermediate Physics Lab 2 PHYS-4800 Senior Seminar — Physics 1 (or CHEM-4800 Senior Seminar — Chemistry 1) SCED-3110 Clinical Teaching in Science 1 SCED-3120 Teaching Science 3 | EDCD 4050 Communication Collaboration and Inclusion |
| GSS-1100 Politics and American Culture 3 PHYS-3110 Intermediate Physics Lab 2 PHYS-4800 Senior Seminar — Physics 1 (or CHEM-4800 Senior Seminar — Chemistry 1) SCED-3110 Clinical Teaching in Science 1 SCED-3120 Teaching Science 3 | |
| PHYS-3110 Intermediate Physics Lab 2 PHYS-4800 Senior Seminar — Physics 1 (or CHEM-4800 Senior Seminar — Chemistry 1) SCED-3110 Clinical Teaching in Science 1 SCED-3120 Teaching Science 3 | |
| PHYS-4800 Senior Seminar — Physics | |
| (or CHEM-4800 Senior Seminar — Chemistry | |
| (or CHEM-4800 Senior Seminar — Chemistry | PHYS-4800 Senior Seminar — Physics1 |
| SCED-3110 Clinical Teaching in Science | |
| SCED-3120 Teaching Science3 | SCED-3110 Clinical Teaching in Science |
| | |
| 10tu: | |
| | .00 |

Department of Science and Mathematics Physics Education

Physics Education (Bachelor of Arts)

| Course requirements involve 61 semester hours including: |
|--|
| Physics Core Requirements26 |
| PHYS-2110, 2120, 2130 General Physics I, II, and III 10 |
| PHYS-3110 Intermediate Physics Lab2 |
| PHYS-3310 Theoretical Mechanics I |
| PHYS-3410 Electromagnetic Theory I |
| PHYS-3510 Modern Physics I3 |
| PHYS-3800 Research Methods in Physics 1 |
| PHYS-4800 Senior Seminar — Physics 1 |
| Physics electives selected from the following3 |
| PHYS-3350 Thermal Physics3 |
| PHYS-4210 Mathematical Methods for Physicists3 |
| PHYS-4410 Electromagnetic Theory II3 |
| PHYS-4450 Optics3 |
| PHYS-4520 Quantum Mechanics I3 |
| *PHYS-4880 Topics in Physics1–3 |
| Departmental Requirements35 |
| GBIO-1000 Principles of Biology |
| CHEM-1110, 1120 General Chemistry I and II |
| GSCI-1010 Principles of Earth Science |
| MATH-1710, 1720, 2710 Calculus I, II, and III |
| MATH-2740 Differential Equations |
| SCED-3110 Clinical Teaching in Science |
| SCED-3120 Teaching Science |
| Teacher Education41 |
| *Capstone Course |
| Physics Education Curriculum Summary |
| Proficiency Requirements0-5 |
| Other General Education Requirements38–46 |
| Physics Education Major Requirements6 |
| Teacher Education Requirements4 |
| Total (minimum, not including proficiency)140 |



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

Suggested Four-Year Curriculum for a Major in Physics Education — B.A.

| First year: | |
|--|----------------|
| BTGE-1720 Spiritual Formation | |
| CHEM-1110, 1120 General Chemistry I and II | .8 |
| COM-1100 Fundamentals of Speech | .3 |
| EDUC-1000 The Education Profession | .2 |
| EDUC-1050 Preliminary Student Involvement | .0 |
| ENG-1400 Composition | .3 |
| MATH-1710, 1720 Calculus I and II | 10 |
| PEF-1990 Physical Activity and the Christian Life | .2 |
| PHYS-2110 General Physics I | . 4 |
| Total | 35 |
| Second year: | |
| BTGE-2730 Old Testament Literature | .3 |
| BTGE-2740 New Testament Literature | |
| EDSP-2100 Exceptionalities and Behavior | .2 |
| EDUC-2050 Teaching Diverse Learners | |
| EDUC-2100 e-Learning for Educators | .3 |
| EDUC-2300 Assessment and Differentiation | .2 |
| EDUC-2500 Educational Psychology | |
| GBIO-1000 Principles of Biology | 3.5 |
| GSS-1100 Politics and American Culture | .3 |
| MATH-2710 Calculus III | .3 |
| MATH-2740 Differential Equations | .3 |
| PHYS-2120, 2130 General Physics II and III | .6 |
| Total | 3.5 |
| Third year: | |
| BTGE-3755 Theology I | વ |
| BTGE-3765 Theology II | .o |
| EDUC-3200 Faith and Learning Alignment | 1 |
| GSCI-1010 Principles of Earth Science | 5 |
| HUM-1400 Introduction to the Humanities | |
| PHYS-3110 Intermediate Physics Laboratory | .2 |
| PHYS-3310 Theoretical Mechanics I | |
| PHYS-3510 Modern Physics I | |
| PHYS-3800 Research Methods in Physics | |
| SCED-3110 Clinical Teaching in Science | |
| History Elective | |
| LIT-2XXX Literature Elective | |
| Social Science/Global Awareness Elective | .3 |
| Total | |
| Fourth year: | |
| EDSE-4000 Reading in the Content Area: AYA | 2 |
| EDSE-3000 Principles of Teaching AYA Learners | د. ا |
| EDSE-4450 Adolescent/Young Adult Field Experience | ۰ ۱ |
| EDSE-4900 Student Teaching and Seminar: AYA | |
| EDSP-4250 Communication, Collaboration and Inclusion | |
| EDUC-3100 Philosophical Foundations of Education | 3 |
| PHYS-3410 Electromagnetic Theory I | |
| PHYS-4800 Senior Seminar — Physics | 1 |
| SCED-3120 Teaching Science | . 3 |
| Physics Elective | |
| 1 1170100 E100010 | . 0 |
| Total | |

DepartmentofScienceandMathematicsScienceComprehensiveEducation—Integrated(BachelorofArts)

Science Comprehensive Education — Integrated (Bachelor of Arts)

| Course requirements involve 73 semester hours including: | |
|--|------------|
| Core Requirements | 63 |
| BIO-1110 Introduction to Biology | |
| BIO-1120 General Zoology | |
| BIO-2500 General Botany | |
| BIO-2600 General Ecology | |
| BIO-3300 Genetics | 4 |
| *BIO-4800 Senior Seminar — Biology | 1 |
| CHEM-1110, 1120 General Chemistry I and II | |
| CHEM-2800 Introduction to Research in Chemistry | |
| CHEM-3510 Organic Chemistry I | |
| CHEM-3710 Biochemistry | |
| ESCI-2510 Introductory Astronomy | |
| GEOL-1110 Introduction to Physical Geology | |
| GMTH-1030 Precalculus | |
| PHYS-1010, 1020 College Physics I and II | |
| SCED-3110 Clinical Teaching in Science | |
| SCED-3120 Teaching Science | |
| Electives selected from the following | 10 |
| One biology selected from the following | |
| BIO-3410 Invertebrate Zoology | .3 |
| BIO-3450 Human Structure and Function I | |
| BIO-3510 Plant Physiology | |
| BIO-3520 Plant Taxonomy | .3 |
| BIO-3610 Environmental Physiology and Ecology | |
| BIO-4300 Molecular Biology of the Cell | .4 |
| BIOA-3600 Topics in Environmental Biology | |
| One chemistry selected from the following | |
| CHEM-2210 Analytical Chemistry I CHEM-3520 Organic Chemistry II | |
| One earth science selected from the following | |
| GEOL-1120 Historical Geology | |
| ESCI-2310 Introduction to Oceanography | |
| ESCI-2410 General Meteorology | |
| Teacher Education | |
| *Capstone Course | ······ 7 I |
| Oapsione Oodise | |
| Science Comprehensive Education — Integrated Summ | arv |
| Proficiency Requirements | 0–5 |
| General Education Requirements | |

Science Comprehensive Education Major Requirements......73 Teacher Education Requirements......41 Total (minimum, not including proficiency)152



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: | |
|--|----------------|
| BTGE-1720 Spiritual Formation | .3 |
| BIO-1110 Introduction to Biology | . 4 |
| BIO-1120 General Zoology | |
| CHEM-1110, 1120 General Chemistry I and II | |
| CHEM-2800 Introduction to Research in Chemistry | |
| EDUC-1000 The Education Profession | |
| EDUC-1050 Preliminary Student Involvement | |
| ENG-1400 CompositionGEOL-1110 Introduction to Physical Geology | د. 1 |
| GMTH-1030 Precalculus | . - |
| GSS-1100 Politics and American Culture | .3 |
| PEF-1990 Physical Activity and the Christian Life | |
| Total | |
| Second year: | |
| BTGE-2730 Old Testament Literature | 3 |
| BTGE-2740 New Testament Literature | |
| BIO-2500 General Botany | |
| BIO-2600 General Ecology | |
| CHEM-3510 Organic Chemistry I | |
| COM-1100 Fundamentals of Speech | |
| EDSP-2100 Exceptionalities and Behavior | |
| EDUC-2050 Teaching Diverse Learners | |
| EDUC-2100 e-Learning for Educators | |
| EDUC-2300 Assessment and Differentiation | |
| EDUC-2500 Educational Psychology | .3 |
| ESCI-2510 Introductory Astronomy | |
| Total | 36 |
| Third year: | |
| BTGÉ-3755 Theology I | .3 |
| BTGE-3765 Theology II | .3 |
| BIO-3300 Genetics | |
| CHEM-3710 Biochemistry | . 4 |
| EDUC-3200 Faith and Learning Alignment | |
| HUM-1400 Introduction to the Humanities | |
| PHYS-1010, 1020 College Physics I and II | 10 |
| Biology Elective | |
| History Elective | |
| LIT-2XXX Literature Elective | |
| Social Science/Global Awareness Elective | .о З |
| Total | |
| Faculty was an | |
| Fourth year: BIO-4800 Senior Seminar — Biology | 4 |
| EDSE-4000 Reading in the Content Area: AYA | |
| EDSE-4000 Reading in the Content Area. ATA EDSE-3000 Principles of Teaching AYA Learners | |
| EDSE-4450 Adolescent/Young Adult Field Experience | |
| EDSE-4900 Student Teaching and Seminar: AYA | |
| EDSP-4250 Communication, Collaboration and Inclusion | |
| EDUC-3100 Philosophical Foundations of Education | .3 |
| SCED-3110 Clinical Teaching in Science | |
| SCED-3120 Teaching Science | .3 |
| Earth Science Elective | |
| Total | 35 |
| | |

Department of Science and Mathematics Minors

Minors

The minors in the Department of Science and Mathematics are designed to provide nonmajors with additional background in the biological sciences, mathematics, and physical sciences.

Actuarial Science Minor

| Course requirements for the actuarial science minor in | nvolve |
|--|--------|
| 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, and III | 13 |
| MATH-3110, 4110 Probability and Statistics I and II | 6 |
| MATH-3610 Linear Algebra | 3 |
| | |

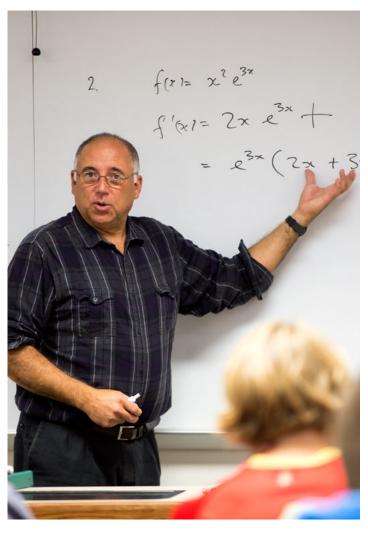
Bioethics Minor

| Course requirements for the bioethics minor involve 16.5– | 17.5 |
|--|------|
| semester hours including: | |
| BTPA-2200 Introduction to Philosophy | 3 |
| BTPA-2250 Ethics | 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 I | 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

Chemistry Minor





Earth Science Minor

Geology Minor

Mathematics Minor

Department of Science and Mathematics Special Programs

Physics Minor

Special Programs

Preagriculture Curriculum

The **preagriculture curriculum** is designed to satisfy the technical and non-technical requirements of the first two years of a typical agriculture program. Students should research agricultural schools to which they wish to transfer at the junior level so that application materials can be completed in advance of deadlines. The preagriculture students should confer with their advisor to select electives based on the following criteria:

- The requirements of the school to which they will transfer after leaving Cedarville University
- The specific agricultural program they wish to enter Course requirements include core requirements and an emphasis in either agriculture business or agriculture science. Core requirements include:

| BTGE-1720 Spiritual Formation | 3 |
|---|----|
| BIO-1110 Introduction to Biology | 4 |
| CHEM-1110 General Chemistry I | 4 |
| ENG-1400 Composition | |
| GMTH-1030 Precalculus | |
| (or MATH-1710 Calculus I | 5) |
| GSS-1100 Politics and American Culture | |
| HUM-1400 Introduction to the Humanities | 3 |

Agriculture Business Emphasis

The **agriculture business emphasis** prepares students for careers in the industry and business phases of agriculture. Course requirements include:

| Two courses selected from | 10 |
|---|-------|
| ACCT-2110 Principles of Accounting | 3 |
| BIO-1120 General Zoology | 4 |
| BIO-2500 General Botany | 4 |
| BIO-2600 General Ecology | |
| BIO-2210 Microbiology | |
| BIO-3300 Genetics | |
| BUS-2150 Statistics for Business | 3 |
| ECON-2330, 2340 Microeconomics and Macroeconom | ics 6 |
| MGMT-3500 Principles of Organization and Manageme | nt 3 |
| Humanities Electives | 6 |
| Social Science Elective | 3 |
| | |

Agriculture Science Emphasis

The **agriculture science emphasis** prepares students for careers including agronomy, animal science, food science, and horticulture.

Social Science Elective3

Environmental Biology Emphasis

The **environmental biology emphasis**, within the biology major, provides undergraduate preparation for students who wish to emphasize the biological sciences while pursuing careers in such fields as conservation biology, wildlife biology, environmental toxicology, and environmental health.

| BIO-3800 Biological Research | 2 |
|--|----|
| Electives selected from | 16 |
| BIO-2210 Microbiology | 4 |
| BIO-3410 Invertebrate Zoology | |
| BIO-3420 Vertebrate Zoology | 3 |
| BIO-3520 Plant Taxonomy | |
| BIO-3610 Environmental Physiology and Ecology | 4 |
| BIO-4910 Environmental Biology Internship | 2 |
| *BIOA-3220 Aquatic Biology | |
| *BIOA-4710 Conservation Biology | |
| *BIOA-4820 Restoration Ecology | |
| ENVS-2100 Introduction Geographic Information Syst | |
| ENVS-3200 Ecosystem Ecology | 3 |
| | |

*Course provided by Cedarville University in partnership with AuSable Institute. Additional elective courses may be completed in May or Summer sessions at AuSable Institute by approval of the student's academic advisor.

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.



Department of Science and Mathematics Special Programs

Predental, Premedical, Preoptometric, Preosteopathic, Physician's Assistant, 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: | | |
|----------------------------|----|--------|
| DIO 4440 leaters decentled | 1. | D: - I |

| BIO-1110 Introduction to Biology | 4 |
|--|----|
| BIO-1120 General Zoology | 4 |
| BIO-2210 Microbiology | |
| BIO-3300 Genetics | |
| BIO-3420 Vertebrate Zoology | |
| (or BIO-4410 Developmental Biology | |
| BIO-3450, 3460 Human Structure and Function I and II | |
| BIO-4710 Principles of Bioethics | 3 |
| (or BIO-4770 Pathophysiology | 3) |
| | , |

Chemistry courses:

| CHEM-1110, 1120 General Chemistry I and II | 8 |
|--|---|
| CHEM-3510, 3520 Organic Chemistry I and II | |
| CHEM-3710 Biochemistry | 4 |

Additional courses:

program to another.

| MATH-1710, 1720 Calculus I and II | . 10 |
|---|------|
| PHYS-1010, 1020 College Physics I and II | |
| (or PHYS-2110, 2120 General Physics I and 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 | |

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 Biology | .4 |
|--|----|
| BIO-1120 General Zoology | .4 |
| BIO-3300 Genetics | |
| BIO-3450, 3460 Human Structure and Function I and II | 7 |
| BIO-4770 Pathophysiology | .3 |
| | |
| Chemistry courses: | |

| CHEM-1110, 1120 General Chemistry I and II8 | |
|---|--|
| CHEM-3510 Organic Chemistry I4 | |
| CHEM-3710 Biochemistry4 | |

Additional mathematics and science courses:

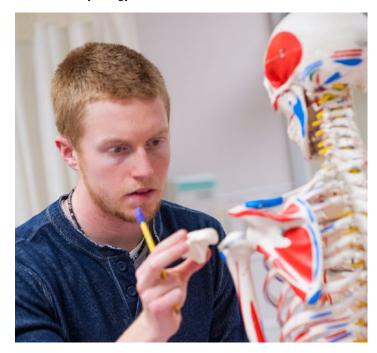
| GMTH-1030 F | Precalculus | 4 |
|--------------|------------------------------|-----|
| PHYS-1010, 1 | 020 College Physics I and II | .10 |

Psychology:

| PYCH-1600 General Psychology | 3 |
|---|---|
| PYCH-2600 Human Development: Lifespan | |
| PYCH-2610 Statistics | |
| PYCH-2640 Psychology of Abnormal Behavior | |
| 3, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, | _ |

Other highly recommended electives:

| ATRN-2650 Therapeutic Exercise | 3 |
|----------------------------------|---|
| ATRN-3660 Therapeutic Modalities | 3 |
| BIO-4710 Principles of Bioethics | 3 |
| ESS-3920 Biomechanics | |
| ESS-3940 Structural Kinesiology | |
| ESS-3900 Physiology of Exercise | |
| | |





Department of Social Work

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Department of Social Work Mission Statement

Mission Statement

The Cedarville University Department of Social Work develops competent servant leaders grounded in biblical truth to practice generalist social work in diverse settings worldwide advancing human and community well-being.

Department Objectives

Graduates of the Cedarville University Baccalaureate Social Work Program will demonstrate a basic level of competency in the profession of social work by

- Integrating faith and practice through a process of ethical reasoning while respecting spiritual diversity.
- Evaluating multiple sources of knowledge and applying strategies of ethical reasoning to integrate knowledge and practice.
- Communicating effectively with diverse individuals, groups, communities, organizations, and colleagues while being mindful of the importance of difference in shaping life experiences.
- Assuring continual professional development by practicing reflection and self-correction and managing personal values in a way that allows professional values to guide practice.
- Assessing client strengths and needs using a bio-psychosocial-spiritual model and analyzing, formulating, and advocating for policies that advance social well-being, recognizing the extent to which a culture's structures and values may oppress, marginalize, alienate, or create or enhance privilege and power.

Personal Requirements

A solid high school college preparatory program provides an excellent background for students entering the social work major.

Department Requirements

To graduate with a degree from the Department of Social Work students must earn a cumulative average of 2.5 or higher and a "C-" or higher in all courses required by the major. In addition, students must be admitted into the social work program.

Admission to the Social Work Program

Admission to the social work program occurs during the sophomore year. Freshmen and sophomores interested in social work should declare their intent to major in social work and meet with an appropriate advisor to ensure that courses are taken in the proper sequence.

Admission Requirements and Procedures

- Complete at least 41.5 hours of the general education requirements, including the necessary prerequisites. (Submit a summary of prerequisites.)
- Complete SWK-1100 Total Immersion Experience with a "C" or higher by the junior year.
- Complete SWK-2330 Introduction to Social Work with a "C" or higher by the junior year.
- Complete ŚWK-2350 Field Survey with a "C" or higher by the junior year.
- 5. Complete SWK-2900 Ethics in the Helping Professions with a "C" or higher by the junior year.
- Complete and submit an Application for Admission to the social work program director, including an autobiographical statement detailing interest in social work.
- Submit letters of recommendation from a pastor, an employer or volunteer supervisor, and a teacher or adult friend.
- 8. Be interviewed by a minimum of two social work faculty.
- Earn a cumulative GPA of 2.25 or higher. Submit a copy of current unofficial grade transcript from CedarInfo.

- 10. Complete and document 40 hours of post high school social service volunteer experience (submit form).
- Provide a background check for the State of Ohio and an additional FBI background check for those who live out of state.
- 12. Submit a social work program handbook sign-off sheet.
- Submit a sign-off sheet attesting to having read the Code of Ethics and agreeing to conform to the Code of Ethics.

The final decision as to whether all requirements are adequately met for admission to and progression in the social work program will be made by the social work program director.

Programs of Study

Cedarville's social work program leads to a Bachelor of Science (B.S.) degree in social work.

Cocurricular Opportunities

Social work has two professional organizations in which students may participate. Students can also broaden their understanding and knowledge through a variety of travel opportunities, internships, and student organizations.

Epsilon Alpha Pi

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

Epsilon Omega

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

Technical Resources

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

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

The department prepares students for careers directly following graduation. Through a variety of modalities (including field work and class presentation by practitioners), students are able to network with actual career representatives.

Career Opportunities

Graduates of the department have attended some of the nation's outstanding graduate and professional schools. Careers pursued by graduates include:

- Administrator
- · Adoption social worker
- Children's services social worker
- · Community developer
- Crisis pregnancy counselor
- Family violence prevention case worker
- Hospice case manager
- Medical social worker
- Mental health social worker

- Missionary
- Prison caseworker
- Probation officer
- Refugee resettlement worker
- · School social worker
- Senior citizen center outreach worker
- Sex trafficking program coordinator
- Youth pastor

Department of Social Work Faculty

Faculty

Nelson Henning, *Chair*; Senior Professor of Social Work. *Education:* B.S.W., Southern Illinois University, 1976; M.S.W., University of Illinois, 1977; Ph.D., University of Pittsburgh, 1986. At Cedarville since 1994.

Melissa Brown: Assistant Professor of Social Work. *Education*: B.S., Cedarville University, 2008; M.S.W., The Ohio State University, 2014. At Cedarville since 2014.

George Huff, Professor of Social Work; Field Director. *Education:* B.A., Ashland University, 1973; M.S.S.A., Case Western Reserve University, 1977. Licensed Independent Social Worker-Supervisor. At Cedarville since 2000.

Maurice Lee, Assistant Professor of Social Work. *Education:* B.A., Central State University, 1996; M.S.W., University of Cincinnati 2007. At Cedarville since 2014.

Social Work

The **social work major** prepares students for future ministries/careers in professional social work, professional church and church-related specializations, and informal assistance. The wide range of opportunities within the social work field provides graduates with numerous ways of investing in the lives of individuals, families, groups, and communities.

The social work program is accredited by the Council of Social Work Education. Social work graduates are eligible for licensure and for advanced standing in graduate schools of social work. Advanced standing allows students to earn a Master of Social Work degree in a little over one year.

Goals

The goal of the social work program is 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.



- 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 responsibilities to continue their professional growth and development.
- 5. Preparing students to practice with populations at risk with unique discrimination and oppressive histories (with a special focus on poverty).
- 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).
- Creating an appreciation for the profession as well as an understanding of the history, personalities, and issues and events that helped to shape it.
- Infusing throughout the curriculum the values and ethics that guide professional social workers in their practice.

International Field Experience

The social work program offers an international field experience in India, Uganda, or Romania to junior or senior social work students. Students work in a variety of social service agencies in the host country, supervised by an on-site master's level social worker and under the direction of the Department of Social Work's international field coordinator. Courses at a local university expand the student's understanding of the host country, and planned activities further enhance the cultural experience. Students receive academic credits for the course work and for the internship, allowing them to complete their Cedarville degree within the normal four years. The international field coordinator supports the student throughout the entire process — pre-departure, during the international experience, and after the student's return to campus.

International field experience is available over the summer break or during the school year. Students interested in international field experience should meet with their advisor as early as possible to discuss the feasibility and scheduling needs. Students should then meet with the international field coordinator to initiate the application process.



Department of Social Work Social Work

Application Requirements

Early application is advised. Students should check with the international field coordinator for the application deadline for their choice of country and desired semester. Students must have gained admission into the social work program or be on track for successful completion of all program admission requirements prior to the international experience. Applicants are required to have a GPA of at least 2.75 within their core social work courses.

Three reference letters from the following individuals are required for acceptance for an international field experience:

- · Advisor or faculty member
- Pastor
- Friend

Pre-Departure Requirements

The student will meet with the international field coordinator once a week for four weeks for a briefing of each country's culture, people, climate, and other pertinent topics. The student is to complete assigned readings and come prepared for discussion. Questions of concern or interest will also be discussed during the weekly sessions.

The student must also fulfill all orientation obligations within the international programs department.

Reentry Requirements

It is recommended the student keep their return semester as light as possible. The student will meet with the international field coordinator once a week for two months during the return semester. The student will be required to read and discuss *Re-Entry* by Peter Jordan.

The student must also fulfill all reentry obligations within the international programs department.



Social Work Advisory Council

The Social Work Advisory Council consists of social work professionals, agency administrators, clergy, and educators representing public, private, and church-related service agencies. Through semi-annual meetings, these experts advise the program and evaluate its plans for training skilled social work professionals with a commitment to core values and a biblical world and life view.

Robert Bruce, Choices, Inc.

Anna Burr, Student Representative, Cedarville University Wendy Doolittle, McKinley Hall, Springfield, Ohio Joan Fleming, Kirkmont Church, Beavercreek, Ohio Nelson Henning, Advisory Council Chair, Cedarville University, Cedarville, Ohio

Sharon Guenther, Miami Valley Hospital, Dayton, Ohio Deborah Holt, The Hospice of Dayton, Dayton, Ohio George Huff, Cedarville University, Cedarville, Ohio Esther Lanham, Advisory Council Secretary, Cedarville University, Cedarville, Ohio

Maurice Lee, Cedarville University, Cedarville, Ohio Greg Meriweather, Wright State University Alisha Murray, Daybreak Inc.

Dianne Smith-Foster, Dayton Veterans Administration Homeless Program, Dayton, Ohio

Denise Summerville, Greene County Board of MRDD, Xenia, Ohio

Eric VanVlymen, Alzheimer's Association, Dayton, Ohio Kelly Vernon, Student Representative, Cedarville University

Barry Wideman, Dayton Veterans Administration Medical Center

Grace Winner, Greene County Juvenille Court



Department of Social Work Social Work

Social Work

Course requirements for the B.S. degree with a major in social work involve 84.5 semester hours including:

| work involve 64.6 semester modes molecung. |
|--|
| ¹ BTPA-2200 Introduction to Philosophy3 |
| ¹ GBIO-1000 Principles of Biology3.5 |
| ¹ HIST-3750 Social Movements3 |
| PYCH-1600 General Psychology3 |
| SOC-1300 Introduction to Sociology3 |
| ² SWK-1100 Total Immersion Experience1 |
| ^{1,2} SWK-2330 Introduction to Social Work3 |
| ² SWK-2350 Field Survey2 |
| ² SWK-2840 Concepts of Chemical Dependency3 |
| ² SWK-2900 Ethics in the Helping Professions3 |
| ³ SWK-3010 Human Behavior and Social Environment3 |
| ³ SWK-3020 Generalist Social Work Practice with |
| Multicultural Groups3 |
| ³ SWK-3110 Social Welfare Programs and Policy4 |
| ³ SWK-3210 Social Work Practice with Individuals |
| and Families4 |
| 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 II3 |
| ³ SWK-4210 Social Work Practice with Diverse Populations3 |
| 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 I6 |
| ³ *SWK-4570 Senior Field Experience II6 |
| 1,3SWK-4610 Statistics for Social Workers |
| ³ SWK-4620 Social Work Research Methods3 |
| Electives selected from6 |
| ¹ ANTH-1800 Cultural Anthropology3 |
| SWK-2500 Social Work with Aging Populations3 |
| SWK-2820 Social Work in Mental Health Settings3 |
| ¹ Satisfies general education requirement. |

²Available to non-majors.

Social Work Major Curriculum Summary

| Proficiency Requirements | 0–5 |
|--|------|
| General Education Requirements | 41.5 |
| Social Work Major Requirements | 84.5 |
| Electives | 2 |
| Total (minimum, not including proficiency) | 128 |

Because of the specific, sequential course requirements involved, completion of the program in four years requires careful planning. Failure to take courses in their sequential order may result in a fifth year for completion. Transfer students, particularly those transferring in as juniors, will most likely require three years of study at Cedarville to complete program requirements.

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

Suggested Four-Year Curriculum for a Major in Social Work

| DTOE 1700 Codetical Formanting | |
|---|---------------------------------------|
| BTGE-1720 Spiritual Formation | 3 |
| BTGE-2730 Old Testament Literature | 3 |
| COM-1100 Fundamentals of Speech | 3 |
| ENG-1400 Composition | 3 |
| GBIO-1000 Principles of Biology | .3.5 |
| HUM-1400 Introduction to the Humanities | . 3 |
| PYCH-1600 General Psychology | |
| PEF-1990 Physical Activity and the Christian Life | o |
| SOC-1300 Introduction to Sociology | |
| | |
| SWK-1100 Total Immersion Experience | |
| SWK-2330 Introduction to Social Work | |
| SWK-2350 Field Survey | |
| Total | 32.5 |
| Canand | |
| Second year: | _ |
| BTGE-2740 New Testament Literature | |
| BTPA-2200 Introduction to Philosophy | |
| GSS-1100 Politics and American Culture | 3 |
| HIST-3750 Social Movements | |
| SWK-2840 Concepts of Chemical Dependency | 3 |
| SWK-2900 Ethics in the Helping Professions | 3 |
| Physical Science Elective | |
| Social Work program electives | 6 |
| Science or Math Elective | o |
| Electives | |
| | |
| Total | 32.3 |
| Third year: | |
| BTGE-3755 Theology I | 3 |
| | |
| RTGE-3765 Theology II | |
| BTGE-3765 Theology II | 3 |
| LIT-2XXX Literature Elective | 3 3 |
| LIT-2XXX Literature Elective | 3 3 |
| LIT-2XXX Literature Elective | 3 3 3 |
| LIT-2XXX Literature Elective | 3 |
| LIT-2XXX Literature Elective | 3 3 3 |
| LIT-2XXX Literature Elective | 3 3 3 4 |
| LIT-2XXX Literature Elective | 3 3 3 4 |
| LIT-2XXX Literature Elective | 3 3 3 4 4 |
| LIT-2XXX Literature Elective | 3 3 3 4 4 4 |
| LIT-2XXX Literature Elective | 3 3 3 4 4 4 2 |
| LIT-2XXX Literature Elective | 3 3 3 4 4 4 2 |
| LIT-2XXX Literature Elective | 3 3 4 4 4 6 6 |
| LIT-2XXX Literature Elective | 3 3 4 4 4 6 6 |
| LIT-2XXX Literature Elective | 3 3 4 4 4 6 6 |
| LIT-2XXX Literature Elective | 3 3 4 4 2 6 3 |
| LIT-2XXX Literature Elective SWK-3010 Human Behavior and Social Environment SWK-3020 Generalist Social Work Practice with Multicultural Groups SWK-3110 Social Welfare Programs and Policy SWK-3210 Social Work Practice with Individuals and Families SWK-3430, 3450 Junior Seminar I and II SWK-3440, 3460 Junior Field Experience I and II Science or Math Elective (Bioethics recommended) Total Fourth year: SWK-4210 Social Work Practice with Diverse Populations SWK-4220 Social Work Practice with Communities and Organizations | 3 3 4 4 2 6 3 34 |
| LIT-2XXX Literature Elective SWK-3010 Human Behavior and Social Environment SWK-3020 Generalist Social Work Practice with Multicultural Groups SWK-3110 Social Welfare Programs and Policy SWK-3210 Social Work Practice with Individuals and Families SWK-3430, 3450 Junior Seminar I and II SWK-3440, 3460 Junior Field Experience I and II Science or Math Elective (Bioethics recommended) Total Fourth year: SWK-4210 Social Work Practice with Diverse Populations SWK-4220 Social Work Practice with Communities and Organizations SWK-4510, 4520 Senior Seminar I and II | 3 3 4 4 2 6 3 34 |
| LIT-2XXX Literature Elective | 3 3 4 4 2 6 3 34 |
| LIT-2XXX Literature Elective SWK-3010 Human Behavior and Social Environment SWK-3020 Generalist Social Work Practice with Multicultural Groups SWK-3110 Social Welfare Programs and Policy SWK-3210 Social Work Practice with Individuals and Families SWK-3430, 3450 Junior Seminar I and II SWK-3440, 3460 Junior Field Experience I and II Science or Math Elective (Bioethics recommended) Total Fourth year: SWK-4210 Social Work Practice with Diverse Populations SWK-4220 Social Work Practice with Communities and Organizations SWK-4510, 4520 Senior Seminar I and II SWK-4560, 4570 Senior Field Experience I and II SWK-4610 Statistics for Social Workers | 33443343 |
| LIT-2XXX Literature Elective | 3344233343343 |

³Available only to social work majors who have been accepted into the program.

^{*}Capstone Course



Course Descriptions

| Accounting (ACCT) | .210 |
|---|-------|
| Adolescent / Young Adult Education (EDSE) | .227 |
| Air Force ROTC (AES) | . 259 |
| Allied Health (ALHL) | |
| Anthropology (ANTH) | . 245 |
| Arabic Language (ARBC) | |
| Army ROTC (MIL) | . 259 |
| Art (ART) | |
| Athletic Training (ATRN) | .255 |
| Bible and Theology — Biblical Studies (BTBS) | .205 |
| Bible and Theology — New Testament (BTNT) | 208 |
| Bible and Theology — New Testament (BTNT)Bible and Theology — Old Testament (BTOT) | 208 |
| Rible and Theology — History and Theology (RTHT) | 207 |
| Bible and Theology — History and Theology (BTHT) Bible and Theology — Biblical Languages (BTBL) | 209 |
| Rible and Theology — Applied Theology (RTAT) | 203 |
| Rible and Theology — Christian Ministry (RTCM) | 200 |
| Rible and Theology General Education (RTGE) | 200 |
| Bible and Theology — Applied Theology (BTAT) | 200 |
| Biology (BIO) | 270 |
| Broadcasting and Digital Media (BRDM) | |
| Business Administration (BUS) | 211 |
| | |
| Coaching (CCHG) Conducting (CDMU) | |
| | |
| College Studies (COLL) | |
| Communication Studies (COM) | . 220 |
| Computer Engineering (EGCP) | |
| Criminal Justice (CRJU) | |
| Chemistry: Major (CHEM) | . 212 |
| Chemistry: General Education (CHEM) | |
| Chinese (CHN) | |
| Church Music (CHMU) | |
| Computer Science (CS) | |
| Developmental (DEV)(FDEQ) | . 253 |
| Early Childhood Education (EDEC) | |
| Earth Science (ESCI) | |
| Economics (ECON) | |
| Education (EDUC) | . 229 |
| Electrical Engineering (EGEE) | |
| English (ENG) | . 239 |
| Environmental Science (ENVS) | .273 |
| End-User Information Systems (EUIS) | |
| Exercise and Sport Science (ESS) | . 256 |
| Exercise and Sport Science Education (ESED) | . 256 |
| Exercise and Sport Science Elective (ESSE) | . 256 |
| Exercise Science (EXSC) | |
| Film (FILM) | |
| Finance (FIN) | .212 |
| Forensic Science (FORS) | . 274 |
| French (FREN) | |
| General Biology (GBIO) | |
| General Engineering (EGGN) | .235 |

General Mathematics (GMTH)276

| General Music (GMUS) | . 261 |
|---|-------|
| General Science (GSCI) | . 276 |
| General Social Science (GSS) | . 247 |
| Geography (GEO) | |
| Geology (GEOL) | |
| German (GER) | |
| History (HIST) | |
| Honors (HON) | . 253 |
| Humanities (HUM) | |
| Industrial and Innovative Design (IDES) | |
| Information Technology Management (ITM) | .213 |
| International Studies (INTL) | |
| Journalism (JOUR) | |
| Keyboard Pedagogy (KPMU) | .262 |
| Liberal Arts (LART) | |
| Linguistics (LING) | 241 |
| Literature (LIT) | |
| Management (MGMT) | 215 |
| Marketing (MRKT) | |
| Mathematics (MATH) | |
| Mathematics Education (MTED) | |
| Mechanical Engineering (EGME) | |
| Middle Childhood Education (EDMC) | |
| Multi-Age Health Education (MAHE) | |
| Multi-Age Physical Education (MAPE) | 257 |
| Music Class Studies (CLMU) | |
| Music Education (MUED) | |
| Music History (HLMU) | |
| Music Performance (PFMU) | 263 |
| Music Private Study (PLMU) | |
| Music Technology (TYMU) | |
| Music Theory (THMU) | |
| Nursing (NSG) | |
| Prepharmacy (PPHR) | |
| Physical Education Activity Courses (PEAX) | 201 |
| Physical Education Fitness (PEF) | . 200 |
| Physics: General Education (PHYS) | 270 |
| Physics: Major (PHYS) | |
| Political Science (POLS) | .2/3 |
| Psychology (PYCH) | |
| Public Administration (PUAD) | |
| Science Education (SCED) | |
| Sociology (SOC) | |
| Spanish (SPAN) | |
| Sport Management (SMGT) | |
| Special Education (EDSP) | 217 |
| | |
| Social Work (SWK) Professional Writing and Information Design (PWID) | |
| Theatre (THTR) | |
| Visual Communication Design (VCD) | . 200 |
| | |
| Worship (WSHP) | . 205 |

Department of Art, Design, and Theatre Course Descriptions

Art (ART)

ART-1100 Introduction to Art-Fa

3 hours

Introduction to visual vocabulary and the understanding of visual communication: form, line, space, color, texture, and movement. Development of visual awareness and analytical thinking in response to works of art, use of media, and techniques and the application of design principles.

ART-1110 Drawing Foundations-Fa, Sp

3 hours

3 hours

3 hours

Investigation of the visual language used in drawing. Students work with concepts of point, line, and plane definition to develop an awareness of the elements used to indicate form in a variety of media. (Fee: \$100)

ART-1230 Two-Dimensional Design-Fa, Sp

An exploration of the visual elements and concepts of design utilizing a variety of media. *Prerequisite: ART-1100 Introduction to Art; ART-1110 Drawing Foundations (can be taken concurrently).* (Fee: \$75)

ART-2110 Intermediate Drawing-Sp

Further exploration of form, space, and mark making through a variety of drawing media. Particular attention will be given to the figure, as well as observing and rendering perspective. Prerequisite: ART-1110 Drawing Foundations; ART-1230 Two-Dimensional Design. (Fee: \$100)

ART-2130 Painting Foundations–Fa 3 hours

An introduction to oil painting, emphasizing the perception and use of light and color in accurately representing form and space. *Prerequisites: ART-1110 Drawing Foundations; ART-1230 Two-Dimensional Design.* (Fee: \$150)

ART-2160 Sculpture Foundations-Sp 3 hours

An exploration of basic studio sculpting including casting, additive (modeling and constructive), and subtractive methods (carving) in a variety of media. *Prerequisites: ART-1230 Two-Dimensional Design; ART-2230 Three-Dimensional Design.* (Fee: \$300)

ART-2170 Printmaking Foundations—Fa 3 hours

An introduction to intaglio and relief printmaking processes.

*Prerequisites: ART-2110 Intermediate Drawing. (Fee: \$250)

*ART-2230 Three-Dimensional Design—Fa, Sp 3 hours

Application of principles of design and visual organization with emphasis on volume, mass, and rendering forms in space.

Prerequisite: ART-1100 Introduction to Art, ART-1110 Drawing

Foundations; ART-1230 Two-Dimensional Design. (Fee: \$175) ART-2250 Creative Photography—Fa, Sp 3 hours

Students will learn and apply technical knowledge and compositional techniques necessary to produce creative, quality digital photographs. Additionally, students will gain historical and contemporary knowledge, skills, and appreciation of photography as a medium for artistic expression visual communication. Students must provide a digital point-n-shoot camera or DSLR camera. A tripod is recommended. (Fee: \$50)

ART-3110 Advanced Drawing-Fa, Sp 3 hour

This course allows the studio art major an opportunity to explore a particular studio discipline or may be a continuation of work completed in previous studio courses, allowing the student a concentration in that particular discipline. *Prerequisites: ART-1110 Drawing Foundtions; ART-1230 Two-Dimensional Design; ART-2110 Intermediate Drawing.* Repeatable up to one time. (Fee: \$100)

ART-3130 Intermediate Painting—Sp 3 hours

Study of the principles of composition, value, pattern, tone, mood, and color theories. Emphasis is placed on the creative process from concept to finished art. Imaginative and individual responses of the student increase throughout the course. *Prerequisite: ART-2130 Painting Foundations.* (Fee: \$150)

ART-3150 Ceramics-Sp

3 hours

Provides an introduction to clay from construction to finished fired pieces. Students will build forms using basic hand-building techniques and the potter's wheel. Surface decoration will be emphasized using color, texture, and glazes. (Fee: \$175)

ART-3160 Intermediate Sculpture–Fa, Sp

3 hours

This course will further expand on the materials and techniques learned in Sculpture Foundations. Students will define techniques and understanding of materials they have previously used with emphasis on developing a personal artistic voice. Student and professor may define new materials and techniques that will be introduced through class or individual projects based on student ability and interest. *Prerequisite: ART-2160 Sculpture Foundations*. (Fee: \$300)

ART-3170 Intermediate Printmaking–Fa, Sp **3 hours**

Building upon the relief and intaglio processes, the student will add the processes of serigraphy (screen printing) and lithography. Subsequently, the student will concentrate on one of the four printing processes. The upper-level printmaking student is encouraged to combine printing techniques and create images of greater size with an emphasis on artistic statement. The proper matting and presentation of the print is included in this course. Instruction will consist of demonstrations, audio-visual lectures, and group and individual critiques. *Prerequisites: ART-2110 Intermediate Drawing; ART-2170 Printmaking Foundations.* (Fee: \$250)

ART-3230 Watercolor-Sp

3 hours

A location painting watercolor course for students who have had drawing instruction and who have a basic understanding of composition and color theory. *Prerequisites: ART-1110 Drawing Foundations; ART-1230 Two-Dimensional Design; or by portfolio.* (Fee: \$180)

ART-3250 Studio Photography-Fa

3 hours

Students will learn to control and manipulate various aspects and qualities of light in a photographic studio environment to create and implement lighting solutions for various commercial, fine art, and creative digital photography projects. Additional expenses for materials and services beyond the course fee are required for successful completion of this course — students should plan and budget accordingly. *Prerequisites: ART-2250 Creative Photography or permission of instructor.* (Fee: \$200)

ART-3310 Art History I–Fa 3 hours Survey of the development of western art and architecture from

Survey of the development of western art and architecture from the ancient world through the early renaissance.

ART-3320 Art History II-Sp

3 hours

Survey of the development of western painting, architecture, sculpture, and the graphic arts from the early renaissance through impressionism at the end of the 19th century. *Prerequisite: ART-3310 Art History I.*

ART-4130 Advanced Painting-Fa, Sp 3 hou

Building upon Painting Foundations and Intermediate Painting, Advanced Painting allows for further exploration and focus as students develop a mature, exhibitable body of work. Student and professor will define course projects based on abilities and interest of the student. *Prerequisites: ART-2130 Painting Foundations; ART-3130 Intermediate Painting.* Repeatable up to one time.

ART-4150 Advanced Ceramics–Fa, Sp 3 hours

This course enables the student to expand the hand building and wheel thrown techniques of ART-3150 Ceramics. The upper level ceramics student is encouraged to develop expertise in ceramic methods of building, throwing, and decoration while developing personal artistic statements. *Prerequisites: ART-2230 Three-Dimensional Design; ART-3150 Ceramics.* (Fee: \$175) Repeatable up to two times.

ART-4160 Advanced Sculpture-Fa, Sp

3 hours

Building on Sculpture Foundations and Intermediate Sculpture, Advanced Sculpture allows for further exploration and focus as students develop a mature, quality body of work. The professor will define course projects based on abilities and interest of the student. *Prerequisites: ART-3160 Intermediate Sculpture*. (Fee: \$300) Repeatable up to two times.

ART-4170 Advanced Printmaking-Fa, Sp

3 hours

This printmaking course is for the advanced student who is completing a concentration in printmaking. By allowing the student to specialize in a particular technical process, this course focuses on presenting a unified body of prints reflecting a personal style and deeper thinking in preparation for the student's senior exhibition. This course encourages experimentation with the synthesis of analog digital technologies while maintaining traditional value for achieving the consistent multiple image. Prerequisites: ART-2170 Printmaking Foundations; ART-3170 Intermediate Printmaking. (Fee: \$300)

ART-4300 Art Exhibition-Sp

3 hours

Designed to provide the student a hands-on experience in mounting an art exhibition. Topics include archival matting and framing, lighting, and hanging techniques, as well as publicity and signage. Studio work is a requirement to balance a portfolio of work for a senior exhibition. Capstone course. *Prerequisite: senior studio art major status*.

ART-4400 20th Century Art-Fa

3 hour

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

1-3 hours

This is a workshop for students who are interested in a collaborative studio learning experience in applied art. Applied areas offered include painting (watercolor, oil, acrylic), pottery, or photography. Rotation of course content will be determined by faculty schedules. In instances where Cedarville University faculty are acting as instructors in professional workshops held off-campus, Cedarville University students who participate and pay Cedarville tuition can earn elective credit. Actual contact hours would determine amount of credit granted. *Prerequisite:* permission of the instructor. (Fee: \$75).

ART-4990 Independent Study in Art

1-3 hours

Independent and intensive study in a particular area of art for individual students who demonstrate special interests and ability.

Industrial and Innovative Design (IDES)

IDES-2000 History and Influences of Design-Sp 3 hours

Survey of design from the 17th century to the present. The course highlights significant stages in the development and pivotal influences of design including technological advances, individual works, key movements, schools of thought, and approaches relative to time(s) and culture(s). Crosslisted with VCD.

IDES-3110 Drawing in Dynamic Perspective I–Fa 3 hours

This hands-on course includes lecture, demonstration, progressive hand-generated drawing exercises, and project work, all designed to reveal the hidden keys to training our creativity to perceive space and the geometry of space with greater authority. The principles of one-point and two-point perspective and related visual systems will be presented in a bold problem-solving format ranging in scale from the simple to the complex in order to accurately express our conceptual capabilities. (Fee: \$350)

IDES-3120 Drawing in Dynamic Perspective II–Fa 3 hours

Building on the visual authority and refined hand-drawing skills developed in Drawing in Dynamic Perspective I, this course explores in greater depth the application of advanced perspective principles in problem-solving scenarios for a diverse range of "core content" industrial design exercises. *Prerequisite: IDES-3110 Drawing in Dynamic Perspective I.*

IDES-3210 Language of Line-Fa

4 hours

Rapid visualization (Power Drawing) skills will be presented in lecture, demonstration, progressive hand-generated drawing exercises, and project work in an in-depth study of the "language of line" and how it generates visual confidence. The course analyzes the three keys to drawing authority: form, position and texture. Further, the course will place these elements into a process that will produce and solve design problems ranging from understanding basic volumes to successfully illustrating complex volumes through study of applied science, ergonomics, and ethics. *Prerequisite: IDES-3120 Drawing in Dynamic Perspective II.*

IDES-3220 Innovative Media Systems–Fa

5 hours

This course will introduce and encompass the application of creative "mediums" to complete presentation graphic pieces. Design media such as marker, pastel, tempera, toned pencils, computer graphics, etc., will be utilized in demonstration and practical hands-on study to generate impactful presentation studies. *Prerequisite: IDES-3210 Language of Line*

IDES-3310 Fundamentals of Surface Development I-Sp

3 hours

This study will introduce the principles of creating innovative shapes, forms, and volumes, and explore how they in turn influence manufacturing systems. Students will engage in using a variety of materials such as paper, structural foam, plastics, glass, wood, etc., to successfully convey a three-dimensional model interpretation. *Prerequisite: IDES-3220 Innovative Media Systems*. (Fee: \$350)

IDES-3320 4 hours

Fundamentals of Surface Development II-Sp

The principles of this course will expand the model-building skill base by working with an advanced palette of materials to successfully illustrate a set of three-dimensional models.

Prerequisite: IDES-3310 Fundamentals of Surface Development I.

IDES-3410 Three-Dimensional Composition—Sp 4 hours

This course will lay the foundations for "finishing techniques" for modeling and act as an overview for the various software, hardware, hand-crafted, and artisan techniques required to gain a deeper appreciation of the visual impact potential of a finished model and/or prototype, and various presentation practices. Prerequisite: IDES-3320 Fundamentals of Surface Development II.

IDES-3420 Three-Dimensional Presentation—Sp 4 hours

This course is the natural extension of three-dimensional composition. The course focuses on the critical importance of creating, defining, and implementing a series of two-dimensional sketch rendering ideas and converting those ideas into successful three-dimensional model series. *Prerequisite: IDES-3410 Three-Dimensional Composition*.

IDES-4010 Consumer Product Design-Fa

This course is designed to focus on the development of the designer's personal vision and preparation for careers in the area of product design. Completed solutions will be created by the candidates through concept sketches, renderings, layout studies, 3-D models, and a final, scale foam study. *Prerequisite: IDES-3420 Three-Dimensional Presentation.* (Fee: \$350)

4 hours

IDES-4020 Interior Space Design-Fa

3 hours

This course is designed to focus on the development of the designer's personal vision and preparation for careers in the area of interior design. Completed solutions will be created by the candidates through the understanding of human scale, consumer product trends, human interaction, interface, ergonomics, traffic patterns, interior design materials, etc. Prerequisite: IDES-3420 Three-Dimensional Presentation.

IDES-4030 Transportation Design-Fa

4 hours

This course is designed to focus on the development of the designer's personal and client visions and for preparation with the career choice of transportation design. Completed solutions will be created through concept sketches exploring the world of mobility (aircraft, watercraft, automobile, etc.) Prerequisite: IDES-3420 Three-Dimensional Presentation.

IDES-4040 Architectural/Exterior Space Design-Fa 4 hours

Architectural exterior space design concentrates on the discipline of developing the designer's expertise in utilizing structural materials to create the next generation of architectural design systems. Projects will include glass, metals, stone, and a diverse vocabulary of other materials that integrate the creative process to build confidence for this vocational choice. Prerequisite: IDES-3420 Three-Dimensional Presentation.

IDES-4200 4 hours

Professional and Ethical Practices in Design-Sp

Based on the previous semester's exposure to various disciplines within the industrial and innovative design degree, the candidate will focus on an area of specialization and, with staff assistance, develop a thesis statement. Further, candidates will receive coaching from professionals and staff in the areas of design business ethics. Prerequisite: IDES-4040 Architectural/ Exterior Space Design.

IDES-4300 3 hours

Design Project: Selection Statement, Research, and Scope-Sp

With staff and professional support, the candidates will embark on a research journey to discover real-world, market-applicable design solution research within a selected area of specialization. Prerequisite: IDES-4200 Professional and Ethical Practices in Design. (Fee: \$350)

IDES-4400 Design Project and Presentation-Sp 11 hours

In this capstone course, candidates will be assisted in completing their portfolio presentation skills, business case development, professional practices, and receive a professional written and oral critique of their work. Prerequisite: IDES-4300 Design Project: Selection Statement, Research, and Scope.

Theatre (THTR)

THTR-1230 Voice for the Performer-Fa

3 hours

Practical approach to developing a healthy speaking voice for professional use. Voice physiology provides foundation for effective breathing, quality, projection, and articulation for performance. Stage dialects are explored briefly as application of the International Phonetic Alphabet (IPA). Appropriate for actors, singers, public speakers, and voice over artists. Crosslisted with COM-1230.

THTR-1360 Introduction to Costuming-Sp 3 hours

This course is designed to provide the student an overview of the numerous aspects of costuming for theatre, including basic knowledge of the role of the costume designer and the process he or she undertakes in creating designs, the practical skills of constructing and sewing a costume, and the communication and critical thinking skills involved in theatre collaboration for the costume designer. (Fee: \$60)

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-1430 Stage Movement-Fa

A practicum in theatrical stage movement for performance with intensive studio sessions, starting with a foundation of anatomically sound knowledge of Alexander technique. Physical expressiveness is developed through exploration of industrystandard approaches such as Elements, Laban effort/shape movement, and Yakim's social selves. Specific applications develop technique for age demonstration and safe stage combat. Appropriate for students in all performing arts.

THTR-1440 Stagecraft I-Fa. Sp.

1 hour

This course is designed to acquaint the student with selected elements of play production on a practical level. Students are assigned a project in an area of stagecraft such as properties, lighting, costuming, makeup, or set construction/decoration in relation to the mounting of a theatre production.

THTR-1450 Stagecraft II-Fa, Sp

1 hour

Designed to give the student a production staff supervisory experience. Students are assigned an area of stagecraft in relation to the mounting of a theatrical production. Skills learned in Stagecraft I are further developed, and leadership responsibilities required. Prerequisite: THTR-1440 Stagecraft I.

THTR-1460 Theatre Participation-Fa, Sp

1 hour

Students who participate in a theatre-directed play may receive one hour of credit. Participation must occur over a minimum of four weeks of the rehearsal process. Credit may be applied only to the semester in which the participation occurs or the semester immediately following. Repeatable up to four hours. Credit/no credit. Prerequisite: permission of instructor.

THTR-1490 Introduction to Stage Lighting-Fa 3 hours

This course is designed to provide the student an overview of the numerous aspects of lighting design for the theatre, including basic knowledge of the instruments, technology, element of design, lighting plots, and procedures for implementation. Students will be provided the opportunity to explore their technical and creative skills with hands-on experience in the DeVries Theatre. (Fee: \$60) (odd years)

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.

THTR-2350 Directing I-Fa

Practical study of play directing methods, theories, and techniques applied through class projects. Students will direct scenes with complete artistic oversight, fulfilling every role and function of a director. This course is also helpful to education majors who will have to assist in educational theatre productions.

THTR-2410 Advanced Performance Techniques-Sp

An advanced course in solo theatre performance where students learn performance techniques in monologues and monodrama. Special emphasis is placed on the solo presentation of multiple characters in both narrative and dramatic literature. Prerequisite: THTR-2430 Acting I or permission of instructor.

THTR-2430 Acting I-Fa, Sp

Study in the principle theories of realistic acting is balanced with practice in experiencing character creation. Principles of physical and emotional character development are explored.

THTR-2440 Stagecraft III-Fa

1 hour

This course is designed to give the student an opportunity to work on the execution of an assigned design for the mainstage. The student may execute a set piece, costume, or lighting design. Prerequisite: THTR-1450 Stagecraft II.

THTR-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. (Fee: \$50)

THTR-2470 Makeup Design-Fa, Sp 2 hours

Designed to provide the student with both theoretical knowledge and practical skills for makeup design and execution for a theatrical production. Each student will develop this craft through individual projects and work on a mainstage production. (Fee: \$150)

THTR-2500 Introduction to Scenic Design-Sp 3 hours

This course is designed to provide the student introductory overview of numerous aspects of scenic design, including history, technical issues, set construction, and contemporary design techniques for the traditional proscenium stage. There will be an emphasis on developing clear conceptual goals, supporting those goals with visual and text-based research, and translating those ideas into a cohesive scenic design. (Fee:\$60)

THTR-2510 The Arts and Social Change-Sp

3 hours

The nature of this course is to provide background in theory and practical work in arts related areas that focus on efforts to work effectively on behalf of those who are politically, economically, behaviorally, or spiritually oppressed. (odd years)

THTR-3420 Theatre History I–Fa 2 hours

An analysis of performative modes of a given culture within a historical study, reinforcing appreciation of the past and strengthening the understanding of one's own culture as well as different cultures. General survey of theatre history from the pre-Greek era to the present. Focus will be on prevailing philosophical orientation, major dramatists, theatre architecture and staging practices, styles of performance, costume design, innovations, and development.

THTR-3430 Theatre History II-Sp

2 hours

Survey of staging practices and innovations from mid-17th century to present, with study of representative plays from each era.

THTR-3440 Stage Costume History–Fa 3 hours

A general survey of western costuming for the stage from pre-Grecian to late twentieth century. This course provides an overview of the evolution of fashion as well as the social and cultural history affecting fashion change. (Fee: \$40)

THTR-3450 Stagecraft IV-Sp 1 hour

This course is designed to give the theatre major with a design concentration an opportunity to work in the chosen area of their senior theatre project. The student will execute a design for a mainstage production and may assist in the design process. *Prerequisite: THTR-2440 Stagecraft III.*

THTR-3460 Acting II–Sp 3 hours

An advanced course which builds upon and expands realism to showcase performance of Greek playwrights, Moliere, Shakespeare, and post-modern styles. Intensive studio work includes exploration of the cultures surrounding styles, as well as audition skills. *Prerequisite: THTR-2430 Acting I*

THTR-3465 Performing Shakespeare—Fa 3 hours

This course will prepare students for performance of classical works with an emphasis on communicating Shakespearean text with clarity, understanding, and emotional honesty. Students' skill will be challenged through performance of comic scenes, tragic scenes, and monologues after thorough investigation of Shakespeare's rhetorical strategies and poetic form. (even)

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. (Fee: \$35) (even years)

THTR-3510 Directing II-Sp

3 hou

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 1.*

THTR-3520 Scenic Painting-Sp

3 hours

This course is designed to introduce students to scenic painting techniques. The student will hone painting skills through class projects. (Fee: \$75) (even years)

THTR-3530 2 hours

Techniques of American Musical Theatre-Fa

Structured as a studio dance class, basic steps and movements are taught for styles ranging from ballet, jazz, ballroom, and lyrical hip hop. Students gain skills from guest choreographers for performing in musical theatre. Appropriate for theatre and music students. (Fee: \$75)

THTR-3610 Theatre for Young People-Fa

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: \$60) (odd years)

THTR-3650 Playwriting-Fa

3 hours

This course is designed as a means of providing an opportunity for the student to concentrate on the writing of plays as a part of preparation for graduate work, ministry and worship, and the creation of new works for theatre. The emphasis will be on creative storytelling in dramatic form, including experimental work in varying formats. (even years)

THTR-3850 2 hours

Seminar in Arts Administration and Arts Law-Sp

A seminar course providing background in arts add

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. (Fee: \$75)

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, resumé writing, interviewing techniques, graduate study/assistantship options, professional union affiliation, etc. (Fee: \$125)

THTR-4500 Scenic Design-Fa

3 hours

A theatre course that emphasizes the analysis and interpretation of scripts, use of research material, and techniques of presentation. Includes an introduction to the practices of drafting and modeling. (Fee: \$55) (odd years)

THTR-4630 The Christian in Theatre-Sp

2 hours

Students discuss issues they will face in the culture-shaping world of stage and screen. A biblical view of the arts sets the foundation for examining work ethic and professional practice. Service-learning projects integrate faith and art in the local community.

THTR-4640 Special Topics-Fa, Sp

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, Su

0-6 hours

Students are placed with professional organizations to gain experience in actual career situations. Internships depend upon availability. Repeatable up to 12 hours.

THTR-4840 Senior Theatre Project-Fa, Sp

3 hours

The Senior Theatre Project (STP) has two goals: to culminate the student's work at Cedarville with a project presenting the student's highest caliber of work and to prepare the student to achieve personal and professional goals. The theatre major is given a variety of choices through which to fulfill the STP requirement: solo performance, directed production, theatre design, or dramaturgical study. Before determining the nature of the STP, the student must determine personal and professional goals. The theatre major begins shaping the STP immediately upon enrollment in the major. All theatre majors work with a theatre advisor. Capstone course. (Fee: \$50)

Visual Communication Design (VCD)

VCD-1000 Graphic Design for Non-Majors-Fa

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) VCD-1100 Digital Imaging: Adobe Photoshop—Fa, Sp 3 hours

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, projects, tutorials, and studio assignments. (Fee: \$35) VCD-1150 Digital Imaging: Adobe Illustrator—Sp 3 hours

An introduction to media and professional techniques used in digital illustration. (Fee: \$50)

VCD-1200 Design Thinking-Sp

2 hours

In this introductory course, students will explore why we design. Through a variety of projects, contextual research opportunities, reading, instruction, and collaboration, students will learn the core principles of the design discipline, design's role within—and its potential impact on—business and our community, and the ways designers develop innovative insights and compelling ideas that resonate deeply and authentically with ordinary people. (Fee: \$50)

VCD-2000 History and Influences of Design—Sp 3 hours
Survey of design from the 17th century to the present. The
course highlights significant stages in the development and pivotal
influences of design including technological advances, individual
works, key movements, schools of thought, and approaches
relative to time(s) and culture(s). Crosslisted with IDES.

VCD-2200 Typography–Fa

3 hours

An introduction to the study of typography and its role in the structuring of visual language and its relationship to the discipline of graphic design. The course will examine the history of letter forms, their sources, and their influences and will provide opportunities for learning principles and guidelines for the effective use of type in visual communication for a variety of media and messages. Students will learn to structure intelligent, creative type solutions through classroom discussion, reading, research, and studio assignments, including editorial, promotional, and informational applications of typography. *Prerequisites: ART-1230 Two-Dimensional Design; VCD-1150 Digital Imaging: Adobe Illustrator; or permission of instructor.* (Fee: \$50)

VCD-2400 Graphic Design I-Sp

3 hours

An introduction to the study of graphic design with emphasis on using the principles of design to communicate information and ideas in visual form. The course will provide opportunities to learn principles of visual communication and steps in the design process necessary to produce effective design solutions. Learning will be achieved through classroom discussion, reading, research, and studio assignments that center on producing concepts for both printed and electronic forms of information design. *Prerequisites: VCD-2200 Typography; VCD-1100 Digital Imaging: Adobe Photoshop; or permission of instructor.* (Fee: \$50) **VCD-2600 Web Design I**–Fa, Sp **3 hours**

Students learn foundational concepts and skills for building usable and beautiful user-centered websites by exploring the differences between graphic design and interactive design, gaining experience with designing webpage layouts, and practicing the skills necessary for constructing and publishing web pages with HTML and CSS.

VCD-2700 Scripting for Interactivity-Sp

3 hours

Students are introduced to the disciplines of interaction design and front-end development and learn how to use current technologies and best practices to apply principles of interaction to achieve simple, user-centered, interactive effects on real-world projects. *Prerequisite: VCD-2600 Web Design I.* (Fee: \$50) VCD-3200 Portfolio I–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 resume' and protfolio along with written communication for documenting their education, experience, and technical skills. Students are recommended to have completed or be concurrently taking VCD-2400 Graphic Design I to have adequate material for their portfolio.(Fee: \$145)

VCD-3300 Production Design I-Fa

3 hours

An introduction to the technical processes required for the production of graphic design solutions in a variety of media. The course will provide opportunities to gain understanding of guidelines and requirements necessary for producing design documents in both conventional and electronic media. Prerequisites: VCD-1100 Digital Imaging: Adobe Photoshop; VCD-1150 Digital Imaging: Adobe Illustrator. Students are recommended to have completed VCD-2400 Graphic Design I. GD majors and minors only. (Fee: \$50)

VCD-3400 Graphic Design II-Fa

3 hours

An in-depth study of graphic design and its role in creating visual communication. Course work will examine methods of conducting and interpreting research, the development of strategy-driven concepts to formulate targeted design solutions, as well as the foundations of the branding process. The course will provide opportunities for developing conceptual and technical skills through class work and projects following specific communication models. Prerequisites: VCD-1150 Digital Imaging: Adobe Illustrator; VCD-1100 Digital Imaging: Adobe Photoshop; VCD-2400 Graphic Design I; VCD-3300 Production Design I (prerequisite or corequisite); or permission of the instructor. GD majors and minors only. (Fee: \$50)

VCD-3600 Web Design II-Fa

3 hours

Students will learn advanced concepts and techniques in web design including visual design, navigation, usability, grid layout, scripting, coding, and other skills necessary to produce professional, visually enhanced media for delivery via the web. Students will use industry standards, including software, to develop websites and digital media that integrate motion, sound, and interactivity to add value and enhance the user experience for web-based advertising, marketing, and other communication needs. *Prerequisites: VCD-1000 Graphic Design for Non-majors or VCD-2400 Graphic Design I; VCD-2600 Web Design I; VCD-2700 Scripting for Interactivity*.

VCD-3700 3 hours

User Experience and Interface Design-Fa, Sp

Students will study the principles of user experience and interface design, including processes, research methods, and concept testing. They apply principles through conceptualizing, testing and prototyping real-world projects for websites, web applications, mobile applications, gaming consoles, and other emerging technologies. *Prerequisites: VCD-1000 Graphic Design for Non-majors; VCD-2400 Graphic Design I; or permission of the instructor.* (Fee: \$35)

VCD-4200 Portfolio II–Sp 1 hour

This course will focus on revising a portfolio package that demonstrates to prospective employers professional-level knowledge and abilities within a particular area of specialization. Additionally, students will develop professional written, verbal, and non verbal communication skills that will guide the transition from academia to the design industry. *Prerequisites: VCD-3200 Portfolio I and senior status; or permission of instructor.*

VCD-4300 Production Design II—Fa 3 hours

An in-depth study of production methods and practices for application to 2-dimensional and 3-dimensional design concepts. Prerequisites: VCD-1150 Digital Imaging: Adobe Illustrator; VCD-1100 Digital Imaging: Adobe Photoshop; VCD-2400 Graphic Design I; VCD-3300 Production Design I; or permission of the instructor. (Fee: \$50)

VCD-4400 Graphic Design III-Sp 3 hours

A comprehensive study in developing strategy-based design concepts and solutions. This course will examine and utilize targeted market research in developing a design strategy to serve as a framework for developing targeted brand design concepts. The course will require students to develop each phase of the project into part of a comprehensive brand design presentation. *Prerequisites: VCD-3300 Production Design I; VCD-3400 Graphic Design II; or permission of the instructor.* (Fee: \$50)

VCD-4600 Web Design III-Fa 3 hours

Student survey current trends and developments in the fields of user experience, web design, and interactive design and apply new knowledge and skills to create an experimental interactive project. *Prerequisite: VCD-3600 Web Design II.* (Fee: \$50)

VCD-4700 Interactive Design Capstone–Sp 3 hours

Students complete a capstone project that combines skills from previous classes. They will research, plan, conceptualize, prototype, test, develop, and implement a fully functional real-world interactive project. *Prerequisites: VCD-3700 User Experience and Interface Design; VCD-4600 Web Design III.* (Fee: \$50).

VCD-4800 1-3 hours

Special Topics in Visual Communication-Fa, Sp

This course will examine a topic of specialized interest within the field of visual communication design. Rotation of course content will be determined by faculty schedules and student interest. Actual contact hours would determine the amount of credit granted. *Prerequisites: topic dependent and by permission of the instructor.* (Fee: \$50)

VCD-4900 0-6 hours

Visual Communication Design Internship-Fa, Sp, Su

The graphic design internship will give the student an opportunity to gain actual on-the-job experience with professionals in the graphic design industry. This opportunity will allow students to gain insight into the professional practices and approaches to solving communication challenges for a variety of business models and client types. This experience will become a valuable asset in competing for an entry-level position upon graduation. CR/NC course.

School of Biblical and Theological Studies Course Descriptions

Bible and Theology — Applied Theology (BTAT)

BTAT-2000 Introduction to Mission–Sp

3 hours

Foundational concepts and concerns of mission today including definitions, mission theology, "calling," mission ministries, qualifications, preparation, mission and the local church, the missionary family, the MK, short-term missions, mission agencies, the application process, and cultural adjustment. (Fee: \$50)

BTAT-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.

BTAT-2400 Personal Evangelism–Fa, Sp 3 hours

Study of the philosophy, principles, and methodology of personal evangelism. The course includes developing a personal witnessing methodology, understanding the current issues in evangelism, and learning to answer the difficult questions often asked in witnessing experiences. A one-day evangelistic field trip is required.

BTAT-2420 History of Mission-Fa

3 hours

Survey of the history of the expansion of the church from apostolic times to World War II with attention to differing conceptions of the mission task and the strategies and lessons that may be learned for mission today.

BTAT-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 Church Business Administration.

BTAT-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: BTGE-1720 Spiritual Formation.*

BTAT-3400 Biblical Care and Counseling-Sp 3 hours

This course introduces the principles, techniques, approaches, and tools used in the ministry of care, discipleship, and counseling. Biblical, theological, and ethical concerns in the ministry of soul care are discussed, and an overview of common counseling concerns is presented. It also considers various contemporary approaches to counseling and care in the church. These may include professional counseling programs, recovery ministries, discipleship care, and leadership of lay counseling ministries, among many others. The course format includes lecture, video, role play, and discussion. (dual-listed with BTAT-6110 Biblical Care and Counseling)

3 hours

BTAT-3410 Discipleship-Fa, Sp

3 hours

Study of personal discipleship within a biblical framework, utilizing a variety of resources and practical experience. The model developed will be applicable in multiple contexts. (dual-listed with BTAT-6410 Discipleship) (Fee: \$16)

BTAT-3420 Introduction to Pastoral Ministry-Sp 2 hours

This course provides broad overview of pastoral duties including presiding over weddings, funerals, and church services. In addition, such issues as the pastoral call, candidating, ordination, leadership, and family issues are also addressed.

BTAT-3430 Ministerial Counseling-Fa 3 hours

Building upon a biblical and theological foundation for biblical care, discipleship, and counseling, this course provides intermediate and advanced principles and practices of ministerial counseling. It provides an overview of the history, methods, and role of counseling within a modern ministry context. A biblical approach to common counseling problems involving both sin and suffering is addressed within Christian ministry (crisis, abuse, depression, addiction, etc.). It also discusses the role of counseling in encouraging and cultivating spiritual growth through discipleship relationships, including premarital counseling and providing biblical life wisdom. *Prerequisite: BTAT-3400 Biblical and Counseling or permission of instructor.*

BTAT-3450 Contemporary World Missions–Sp

3 hour

Study of the development, methods, and problems of Christian missions since World War II.

BTAT-3470 Cross-Cultural Ministry-Sp

3 hours

Understanding culture, basic methods in researching culture, becoming competent in another culture, cross-culture communication, relevant to a mission ministry, and the practice of ministry contextualization. (Fee: \$140)

BTAT-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: BTGE-1720 Spiritual Formation.* (dual-listed with BTAT-6480 Women's Communication for Ministry)

BTAT-3500 Text-Driven Preaching 1–Fa 3 hours

Introductory course on the nature of preparing and delivering sermons shaped by Scripture's textual meaning. Emphasis is placed on moving from textual interpretation to skilled delivery to a contemporary audience. *Prerequisites: BTGE- 1720 Spiritual Formation; BTGE- 2730 Old Testament Literature; BTGE-2740 New Testament Literature; or permission of the instructor.* (duallisted with BTAT-6500 Text-Driven Preaching 1)

BTAT-3510 Introduction to Urban 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)

BTAT-3730 Theology of Worship—Fa 3 hours

This course explores the theology, history, and practice of Christian worship, with particular attention to how worship practices both reflect and shape theological commitments. Various elements of Christian worship will be examined in light of diverse cultural contexts and theological perspectives with the goal of enabling the student to plan appropriately and to lead worship in a particular ministry setting. *Prerequisites: BTGE-1720 Spiritual Formation; BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature.*

BTAT-4300 Teaching Ministry of the Church–Fa

Course focuses on the practice of expressing biblical and theological content in written documents and/or teaching curriculum for various audiences and settings. Attention is given to the variety of delivery methods for expositional teaching available within a church's ministry. (Crosslisted with BTCM) (dual-listed with BTAT/BTCM-6300 Teaching Ministry of the Church)

BTAT-4510 Advanced Urban Ministry-Sp 3 hours

Continuation of the earlier Urban Ministry course, including global urban issues, particular challenges in world-class cities, sociology of the city, and its implications for mission in the city. Prerequisite: BTAT-3510 Introduction to Urban Ministry. (Fee: \$75)

BTAT-4560 Text-Driven Preaching 2–Fa 3 hours

Advanced course on the nature of preparing and delivering sermons shaped by Scripture's textual meaning. Emphasis is placed on moving from textual interpretation of various biblical genres to skilled delivery to a contemporary audience. *Prerequisite: BTAT-3500 Text-Driven Preaching 1 or permission of the instructor.* (dual-listed with BTAT-6560 Text-Driven Preaching 2)

BTAT-4710 Ministry Internship—Fa, Sp, Su

A mentored and evaluated ministry experience under the direction of a qualified field mentor. Prerequisites: approval of the faculty of the School of Biblical and Theological Studies; senior academic status; BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature; one history and theology elective BTHT-XXXX; one applied theology elective BTAT-XXXX. Repeatable up to three times

BTAT-4720 Missionary Internship

-12 hou

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

BTAT-4730 Pastoral Internship

3-12 hours

A mentored and evaluated local church ministry experience under the direction of qualified pastoral staff. This is an opportunity to utilize and develop knowledge and skills from courses in a ministry context appropriate for student's interest and preparation. Capstone course. Repeatable to 12 hours. Prerequisite: approval of the faculty of the School of Biblical and Theological Studies, senior academic status, completion of the following courses BTAT-3420 Introduction to Pastoral Ministry; BTAT-3430 Ministerial Counseling; BTAT-3500 Text-Driven Preaching 1; BTAT-4560 Text-Driven Preaching 2.

BTAT-4900 1–3 hours

Independent Study in Applied Theology-Fa, Sp, Su

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

BTAT-4950 Men and Women in Leadership-Fa 3 hours

A complementary perspective of men and women providing leadership for the body of Christ within the current cultural milieu. **BTAT-4990 Topics in Applied Theology**—Fa, Sp **1–3 hours**

Investigation of special topics in Bible and theology, which have intrinsic worth and engage student interest. Permission of instructor required for non-majors.

Bible and Theology — Biblical Languages (BTBL)

BTBL-2010 3 hours

Introduction to Biblical Language Tools-Sp

Learning the original language opens the Scriptures to serious students of the Bible in exciting ways. This course is an introduction to the basic principles of phonology (sounds), morphology (forms), and grammar of biblical Greek and Hebrew with a focus on gaining proficiency to be able to use digital language tools such as Logos and the New English Translation Bible. (Fee \$150)

BTBL-2510 Elementary Greek I-Fa

Basic elements of the Greek language. Careful attention is given to grammar, syntax, vocabulary, and the reading of selected portions of the Greek New Testament.

BTBL-2520 Elementary Greek II-Sp 4 hours

Basic elements of the Greek language. Careful attention is given to grammar, syntax, vocabulary, and the reading of selected portions of the Greek New Testament.

BTBL-2610, 2620 3 hours/semester

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.

BTBL-3510 Intermediate Greek I–Fa, Sp 3 hours

Detailed study of advanced Greek grammar, reading in the Greek New Testament, the application of advanced syntactical rules, and an introduction to exegesis. *Prerequisite: BTBL-2510, 2520 Elementary Greek.* (dual-listed with BTBL-6510 Intermediate Greek)

BTBL-3520 Intermediate Greek II–Fa, Sp 3 hours

Detailed study of advanced Greek grammar, reading in the Greek New Testament, the application of advanced syntactical rules, and an introduction to exegesis. *Prerequisite: BTBL-3510 Intermediate Greek I.*

BTBL-4110 Greek Syntax and Exegesis-Sp 3 hours

Exegetical study of the Greek New Testament, focusing on the grammatical and syntactical issues of specific passages. The course provides the opportunity for students to develop their own exegetical skills in working with the Greek text of the New Testament and to grow in their ability to preach and teach expository messages on the Bible. *Prerequisites: BTBL-3510 Intermediate Greek I.* (dual-listed with BTBL-6110 Greek Syntax & Exegesis)

BTBL-4510 Readings in New Testament Greek-Sp 1 hour

Through the translation of a wide variety of Greek texts primarily from the New Testament period, this course reviews and strengthens foundational concepts and skills for the study of Koine Greek. *Prerequisites: BTBL-3510 Intermediate Greek I* (even years).

BTBL-4900 1–3 hours

Independent Study in Biblical Language-Fa, Sp, Su

The student will translate and/or exegete a Scripture passage or investigate advanced grammar and syntax.

BTBL-4990 Topics in Biblical Languages-Fa, Sp 1-3 hours

Investigation of special topics in Bible and theology that have intrinsic worth and engage student interest. *Prerequisites:* permission of instructor required for non-majors.

Bible and Theology — Biblical Studies (BTBS)

BTBS-1000 Introduction to Biblical Studies-Fa 1 hour

This course will introduce the student to the field of biblical studies and related career opportunities. This will provide an overview of the major and the various complementary minors, introduce the various areas of study and related skills, survey career posibilities, and aid the student in determining his or her fit with the field. (Fee: \$25)

BTBS-2020 Biblical Research Methods-Fa

1 hour

The student will learn both how to conduct research and how to produce a research paper, the contents and style of which comply with generally accepted standards held by biblical scholars. In addition, the student will demonstrate these skills by producing a research paper that proposes the student's plan for fulfilling the program's senior-seminar capstone requirement. (odd years)

BTBS-3400 Bible Backgrounds-Sp 3 hours

An introduction to the world of the Bible including the historical context, geographical setting, and cultural milieu. These will be accomplished through a survey of Ancient Near Eastern backgrounds, a survey of the main geographical features of Israel and the Fertile Crescent, and a survey of Intertestamental literature. Prerequisites: BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature.

BTBS-3410 Biblical Archaeology I-Sp

4 hours

2 hours

An introduction to biblical archaeology and the historical and cultural backgrounds of the Old and New Testaments. (even years) BTBS-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)

BTBS-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. (crosslisted with BTHT-4310 Hermeneutics) (dual-listed with BTBS/BTHT-6310 Hermeneutics)

BTBS-4850 Senior Seminar—Sp

3 hours

The senior seminar is a reading and writing intensive course dealing with key aspects of biblical studies. Students will meet with the appointed biblical studies faculty for written presentations and discussion of guided readings in classical and contemporary studies in the discipline. *Prerequisites: senior status.*

Bible and Theology — Christian Ministry (BTCM)

BTCM-1000 Orientation to Bible Ministries Majors-Fa 1 hour

An introduction to the ministries majors provided within the School of Biblical and Theological Studies (youth ministries, Christian education, or missions). The course will provide an overview of the program, survey career opportunities in Christian ministry, and introduce the student to significant people and resources in the field, on the campus, and in the community. Credit/no credit.

BTCM-2100 Wilderness Ministry

See the Department of Kinesiology and Allied Health course description for ESSE-2100 Wilderness Ministry. Credit/no credit. (Fee: \$340)

BTCM-2200 Introduction to Youth Ministry-Sp 2 hours

The course will examine the status of contemporary youth ministries, including a survey of various models of ministry. Foundational personal issues for the professional Christian minister will be explored, including a definition of "success" in youth ministries, and the knowledge, skills, heart, and character necessary for one to lead such ministries successfully.

BTCM-2400 Interpreting and Teaching the Bible-Fa 6 hours

Principles for interpreting, organizing, and presenting the biblical text, and a survey of learning theory are examined to provide a framework for effective lesson preparation in light of the characteristics and needs of students. *Prerequisite: BTGE-1720 Spiritual Formation.*

BTCM-2830 Recreational Leadership-Sp

2 hours

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

BTCM-3110 Clinical Teaching in Bible-Fa, Sp

1 hour

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

BTCM-3510 Small Group Ministry-Fa

3 hours

Study of the theory and practice of the small group process in ministry. Emphasis will be given to the formulation and maintenance of small groups. Emphasis placed on how evangelism and spiritual maturity can be fostered by the small group environment.

BTCM-3520 Counseling and Mentoring Women-Fa 3 hours

Study of the distinctives of biblical counseling specifically applied to counseling women, the mandate and skill of mentoring woman to woman, and biblical responses to life struggles that are specific to women. Crosslisted as PYCH.

BTCM-3530 3 hours

Contemporary Ministry to Women and Girls-Sp

Study of women today who are impacting the Church and edifying the body of Christ through various ministry opportunities. The course also includes a survey of current and potential full-time, part-time and volunteer opportunities for women, concluding with the development of each student's own "dream ministry." (dual-listed with BTCM-6530 Contemporary Ministry to Women & Girls)

BTCM-3540 Women in Church History-Fa

hou

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

BTCM-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: BTCM-2400 Interpreting and Teaching the Bible; major or minor status or permission of the instructor.*

BTCM-3685 3 hours

Children's Ministries for Non-Majors-Fa, Sp

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.

BTCM-3700 Campus Ministries-Sp 4 hours

Principles from Scripture are examined to prepare a biblical philosophy for ministry to junior high and senior high youth in light of developmental characteristics and contemporary sociological factors. Students are equipped to utilize creative, interactive strategies for teaching the Bible and to develop effective age-appropriate ministry programs. Course consists of three weekly class sessions and a two-hour teaching lab. *Prerequisites: BTCM-2400 Interpreting and Teaching the Bible; major or minor status or permission of the instructor.*

BTCM-3705 Campus Ministries for Non-Majors-Sp 3 hours

Principles from Scripture are examined to prepare a biblical philosophy for ministry to junior high and senior high youth in light of developmental characteristics and contemporary sociological factors. Students are equipped to utilize creative, interactive strategies for teaching the Bible and to develop effective age-appropriate ministry programs. Course consists of three weekly class sessions but does not include the teaching lab. (Fee: \$20)

BTCM-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: BTCM-2400 Interpreting and Teaching the Bible; major or minor status or permission of the instructor.*

BTCM-3725 Adult Ministries for Non-Majors-Fa 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.

BTCM-4100 3 hours

Leadership of Christian Educational Ministries-Sp

An examination of models of leadership for Christian ministries, emphasizing practical issues such as developing mission and vision statements, creating effective leadership teams, and the strategic planning, implementation, and oversight of ministries. For youth ministry and Christian education majors, this must be the final course taken from the sequence of the required BTCM courses. Prerequisites: For CE and youth ministries majors: BTCM-2400 Interpreting and Teaching the Bible; BTCM-3680 Children's Ministries; BTCM-3700 Campus Ministries; BTCM-3720 Adult Ministries. No prerequisites for non-majors. (Fee: \$40)

BTCM-4300 Teaching Ministry of the Church–Fa 3 hours

Course focuses on the practice of expressing biblical and theological content in written documents and/or teaching curriculum for various audiences and settings. Attention is given to the variety of delivery methods for expositional teaching available within a church's ministry. (Crosslisted with BTAT) (dual-listed with BTAT/BTCM-6300 Teaching Ministry of the Church)

BTCM-4740 Internship in Christian Ministries 3–12 hours

A mentored and evaluated ministry experience under the direction of a qualified filed mentor. This is an opportunity to utilize and develop knowledge and skills from classes in a ministry context appropriate for student interest and preparation. Repeatable up to 12 hours. Capstone course. Prerequisites: 1) Approval of the faculty of the School of Biblical and Theological Studies. 2) Senior academic status. 3) Completion of the following five courses: BTAT-2350 Theological Foundations of Ministry; BTCM-2400 Interpreting and Teaching the Bible; BTCM-3680, 3700, or 3720 Children's Ministries, Campus Ministries, or Adult Ministries; BTAT-2400 Personal Evangelism or BTAT-3410 Discipleship; and one course in ministry concentration area. Credit/No Credit.

BTCM-4750 Internship in Youth Ministries 3–12 hours

A mentored and evaluated youth experience under the direction of a qualified youth minister. This is an opportunity to utilize and develop knowledge and skills from classes in a youth ministry context appropriate for student's interest and preparation. Capstone course. Repeatable to 12 hours. Prerequisites: 1) Approval of the faculty of the School of Biblical and Theological Studies. 2) Senior academic status. 3) Completion of the following five courses: BTAT-2350 Theological Foundations of Ministry; BTCM-2200 Introduction to Youth Ministry; BTCM-2400 Interpreting and Teaching the Bible; BTCM-3700 Campus Ministries; BTAT-2400 Personal Evangelism or BTAT-3410 Discipleship. Credit/No Credit.

BTCM-4900 1–3 hours

Independent Study in Christian Education—Fa, Sp, Su Students will investigate a significant topic or Scripture passage

of special interest with a view toward integration of knowledge. **BTCM-4990 Topics in Christian Education**—Fa, Sp **1–3 hours**

Investigation of special topics in Bible and theology, that have intrinsic worth and engage student interest. Permission of instructor required for non-majors.

Bible and Theology — General Education (BTGE)

BTGE-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.

BTGE-2730 Old Testament Literature—Fa, Sp, Su 3 hours

Survey of the entire Old Testament, giving special attention to authorship, historical background, and the theme of each book with attention to literary genre. This study traces the history of the Hebrew nation from its origin to the time of Jesus Christ. *Prerequisites: BTGE-1720 Spiritual Formation.*

BTGE-2740 New Testament Literature—Fa, Sp, Su 3 hours

Survey of the entire New Testament, including the historical background of the Inter-Testamental period, giving special attention to main events, the authorship and content of each book with attention to literary genre, and the unfolding of God's redemptive purpose through the Lord Jesus Christ. *Prerequisites: BTGE-1720 Spiritual Formation, BTGE-2730 Old Testament Literature.*

BTGE-3755 Theology I–Fa, Sp 3 hours

An introductory reflection on the theological task, the doctrines of the triune God, creation and humanity, revelation, and sin by means of a conversation between the Bible and classic and contemporary theological literature. This theological reflection will be brought to bear on contemporary challenges. *Prerequisite:* BTGE-1720 Spiritual Formation; BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature.

BTGE-3765 Theology II–Fa, Sp 3 hours

An introductory reflection on the theological task, the doctrines of Christ, salvation, the Holy Spirit, the Church, and last things by means of a conversation between the Bible and classic and contemporary theological literature. This theological reflection will be brought to bear on contemporary challenges with a focus on developing the students' practice of theological thinking. Prerequisite: BTGE-1720 Spiritual Formation; BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature; BTGE-3755 Theology I.

Bible and Theology — History and Theology (BTHT)

BTHT-2500 Church History-Fa

3 hours

An introduction to the history of Christianity covering the major people, movements, institutions, and events of the Church from its founding by Jesus Christ to the present. This course examines the unique ways Christianity has shaped and been shaped by its environment, the rich diversity of its expressions through the ages, and the significant purpose it fulfills in society and the world.

BTHT-2910 Theological Research–Fa, Sp 2 hours

This course is designed to survey the basic process, as well as selected special processes, germane to the field of theological research. *Prerequisite: BTGE-1720 Spiritual Formation.*

BTHT-3340 3 hours

Christian Theology 1: Bible, Trinity, God the Father—Fa
Study of the doctrines of the Scripture and the triune God,
with special emphasis on God the Father. The related biblical
and historical material along with contemporary discussions will
be considered. Ministry implications of the doctrines will garner
attention. Prerequisites: BTGE-3755 Theology I or permission of
the instructor. (dual-listed with BTHT-6340 Christian Theology 1:
Bible, Trinity, God the Father)

BTHT-3350 3 hours

Christian Theology 2: God the Son and God the Spirit-Sp

Study of the persons and work of both Christ and the Holy Spirit. The related biblical and historical material along with contemporary discussions of the doctrines will be considered. Ministry implications of the doctrines will garner attention. *Prerequisite: BTGE-3765 Theology II or permission of the instructor.* (dual-listed with BTHT-6350 Christian Theology 2: God the Son and God the Spirit)

BTHT-3360 3 hours

Christian Theology 3: Humanity, Angels, and Salvation-Fa

Study of the nature of humans, heavenly beings, and God's saving work from election through final consummation. The related biblical and historical material along with contemporary discussions of the doctrines will be considered. Ministry implications of the doctrines will garner attention. *Prerequisite: BTGE-3755 Theology I or permission of instructor.* (dual-listed with BTHT-6360 Christian Theology 3: Humanity, Angels, and Salvation)

BTHT-3370 3 hours

Christian Theology 4: The Church and Last Things—Sp Study of the nature of the church and its mission in the world until the consummation of all things. The ultimate end of individuals and the corporate bodies of the church and israel will be covered. The related biblical and historical material along with contemporary discussions of the doctrines will be considered. Ministry implications of the doctrines will garner attention. Prerequisite: BTGE-3765 Theology II or permission of the instructor. (dual-listed with BTHT-6370 Christian Theology 4: The Church and Last Things) (even years)

BTHT-3500 Historical Theology-Sp

3 hours

An examination of the development of Christian doctrine from the Apostolic Fathers to the modern era. The course will highlight key thinkers and theological developments in the patristic, medieval, Reformation and modern eras. Attention will be given to the reading and analysis of primary documents. *Prerequisites: BTGE-2730 Old Testament Literature , BTGE-2740 New Testament Literature, and BTHT-2500 Church History.* (dual-listed with BTHT-6500 Historical Theology)

BTHT-3720 Spiritual Formation II-Fa

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: BTGE-1720 Spiritual Formation: BTGE-2730 Old Testament Literature: BTGE-2740 New Testament Literature; major status or permission of instructor.

BTHT-3740 Biblical Theology of Womanhood-Sp

A survey of key biblical components that delineates what it means to be female in Christ. The course includes a comprehensive study of major biblical passages concerning women, a survey of women in the Bible, and discussions of the application of these texts within the current cultural milieu. (duallisted with BTHT-6740 Biblical Theology of Womanhood)

BTHT-3750 Historical Theology of Womanhood-Fa

This course includes an overview of major theological concepts developed and discussed throughout the various periods of church history as well as an overview of major events in the history of the church. It will discuss the church's understanding of humanity throughout these periods, with a particular interest in womanhood. This contribution of women to both theological and historical developments in the church will be investigated. (odd years)

A study of some of the major distinctive theologies of the Old and New Testaments within the overall unity of Scripture. This course focuses both on the varieties and tensions among biblical authors and collections within their particular genres and historical settings, and on the similarities and unifying themes among the biblical writings and through both Testaments. (dual-listed with BTHT-6100 Biblical Theology)

BTHT-4300 Global Theology-Sp

BTHT-4100 Biblical Theology-Fa, Sp

3 hours

An introduction to the rise and nature of non-Western theologies along with an examination of the nature of theology and its relevance in contemporary contexts. (dual-listed with BTHT-6300 Global Theology) (even years)

BTHT-4310 Hermeneutics-Fa

3 hours

3 hours

A study of the theory and related practice of the roles of author, reader, and text toward the end of authoritative interpretation and contextualization of the Bible. (crosslisted with BTBS-4310 Hermeneutics) (dual-listed with BTBS/BTHT-6310 Hermeneutics)

BTHT-4320

Contemporary Theology in Historical Context-Sp

Critical study of traditions, trends, issues, and major thinkers in contemporary theology. Prerequisites: BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature; or permission of the instructor. (dual-listed with BTHT-6150 Contemporary Theology in Historical Context)

BTHT-4900 1-3 hours Independent Study in Theology-Fa, Sp, Su

Students will investigate a significant topic of theology of special interest with a view toward integration of knowledge. Prerequisites: BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature; or permission of the instructor.

BTHT-4990 Topics in Theology-Fa, Sp 1-3 hours

Investigation of special topics in Bible and theology, which have intrinsic worth and engage student interest. Permission of instructor required for non-majors. Prerequisites: BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature; or permission of the instructor.

Bible and Theology — New Testament (BTNT)

BTNT-3110 New Testament 1: Synoptic Gospels-Fa 3 hours

Study of the canonical texts of the Gospels of Matthew, Mark, and Luke. Attention is also given to the historical, theological, and literary structural considerations for the books. Drawing on the texts, contemporary implications will also be addressed. Prerequisite: BTGE-2740 New Testament Literature or permission of the instructor. (dual-listed with BTNT-6110 New Testament 1: Synoptic Gospels)

BTNT-3120 3 hours

New Testament 2: Acts and New Testament Epistles-Sp Study of the canonical texts of Acts, Hebrews, James, 1 and 2 Peter, and Jude. Attention is also given to the historical, theological, and literary structural considerations for the books. Drawing on the texts, contemporary implications will also be addressed. Prerequisite: BTGE-2740 New Testament Literature or permission of the instructor. (dual-listed with BTNT-6120 New

BTNT-3130 New Testament 3: Pauline Literature-Fa 3 hours

Study of the canonical texts of Romans, 1 and 2 Corinthians, Galatians, Ephesians, Philippians, Colossians, 1 and 2 Thessalonians, 1 and 2 Timothy, Titus, and Philemon. Attention is also given to the historical, theological, and literary structural considerations for the books. Drawing on the texts, contemporary implications will also be addressed. Prerequisite: BTGE-2740 New Testament Literature or permission of the instructor. (dual-listed with BTNT-6130 New Testament 3: Pauline Literature) (even years) **BTNT-3140** 3 hours

New Testament 4: Johannine Literature-Sp

Testament 2: Acts and new Testament Epistles)

Study of the canonical texts of the Gospel of John, 1–3 John, and Revelation. Attention is also given to the historical, theological, and literary structural considerations for the books. Drawing on the texts, contemporary implications will also be addressed. Prerequisite: BTGE-2740 New Testament Literature or permission of the instructor. (dual-listed with BTNT-6140 New Testament 4: Johannine Literature)

BTNT-4900 1-3 hours

Independent Study in New Testament-Fa, Sp, Su

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

BTNT-4990 Selected Studies in the New Testament 1-3 hours

Selected studies in a New Testament book or specific grouping of books. Repeatable with different books or groupings. Prerequisites: BTGE-2740 New Testament Literature; or permission of instructor. (dual-listed with BTNT-6150 Exposition of New Testament Book)

Bible and Theology — Old Testament (BTOT)

BTOT-3140 Psalms-Fa

3 hours

Examination of the book of Psalms with special attention given to the various types of psalms and their application to life. Prerequisite: BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature or permission of the instructor.

BTOT-3150 Wisdom Literature-Sp 3 hours

Examination of the books of Job, Proverbs, Ecclesiastes, and Song of Solomon. Special attention is given to their literary qualities and practical applications for today. Prerequisite: BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature; or permission of the instructor.

BTOT-3110 Old Testament 1: Pentateuch-Fa 3 hours

Study of the canonical texts of Genesis, Exodus, Leviticus, Numbers, and Deuteronomy. Attention is also given to the historical, theological, and literary structural considerations for the books. Drawing on the texts, contemporary implications will also be addressed. Prerequisite: BTGE-2730 Old Testament Literature or permission of the instructor. (dual-listed with BTOT-6110 Old Testament 1: Pentateuch)

BTOT-3210 Old Testament 2: Former Prophets-Sp 3 hours

Study of the canonical texts of Joshua, Judges, 1 and 2 Samuel, and 1 and 2 Kings. Attention is also given to the historical, theological, and literary structural considerations for the books. Drawing on the texts, contemporary implications will also be addressed. *Prerequisites: BTGE-2730 Old Testament Literature or permission of the instructor.* (dual-listed with BTOT-6120 Old Testament 2: Former Prophets)

BTOT-3310 Old Testament 3: Latter Prophets–Fa 3 hours

Study of the canonical texts of Isaiah, Jeremiah, Ezekiel, Hosea, Joel, Amos, Obadiah, Jonah, Micah, Nahum, Habakkuk, Zephaniah, Haggai, Zechariah, and Malachi. Attention is also given to the historical, theological, and literary structural considerations for the books. Drawing on the texts, contemporary implications will also be addressed.. *Prerequisites: BTGE-2730 Old Testament Literature; or permission of the instructor.* (duallisted with BTOT-6130 Old Testament 3: Latter Prophets)

BTOT-3410 Old Testament 4: Writings-Sp 3 hours

Study of the canonical texts of Psalms, Job, Proverbs, Ruth, Song of Solomon, Ecclesiastes, Lamentations, Esther, Daniel, Ezra, Nehemiah, and 1 and 2 Chronicles. Attention is also given to the historical, theological, and literary structural considerations for the books. Drawing on the texts, contemporary implications will also be addressed. *Prerequisite: BTGE-2730 Old Testament Literature; or permission of the instructor.* (dual-listed with BTOT-6140 Old Testament 4: Writings)

BTOT-4900 1–3 hours

Independent Study in Old Testament-Fa, Sp, Su

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

BTOT-4990 1–3 hours

Selected Studies in the Old Testament-Fa, Sp

Selected studies in an Old Testament book or specific grouping of books. Repeatable with different books or groupings. *Prerequisites: BTGE-2730 Old Testament Literature or permission of instructor.* (dual-listed with BTOT-6150 Exposition of Old Testament Book)

Bible and Theology — Philosophy and Apologetics (BTPA) BTPA-2200 Introduction to Philosophy—Fa, Sp 3 hours

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

BTPA-2240 Logic-Fa 3 hours

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

BTPA-2250 Ethics–Fa 3 hours

Study and evaluation of the major theories of goodness, obligation, and motive and the development of a consistent Christian ethical system, together with the application of ethical theories to contemporary moral problems.

BTPA-2260 World Religions–Fa, Sp 3 hours

An introduction to the teachings and practices of the major world religions along with a Christian response to these religions. **BTPA-3240 Epistemology**–Fa **3 hours**

Study of the nature, sources, types, tests, and limits of human knowledge. *Prerequisite: BTPA-2200 Introduction to Philosophy.* **BTPA-3250 Philosophy of Religion**—Sp

3 hours

Analysis of the major philosophical problems relating to religion as these have arisen in the modern intellectual environment. *Prerequisite: BTPA-2200 Introduction to Philosophy.* (dual-listed with BTPA-6250 Philosophy of Religion)

BTPA-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: BTPA-2240 Logic; or MATH-2210 Logic and Methods of Proof; or permission of instructor.

BTPA-3280 Metaphysics-Sp

3 hours

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

BTPA-3310 3 hours

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

BTPA-3320 History of Modern Philosophy-Sp 3 hours

Study of the principle philosophers from Descartes through Nietzsche. The development of rationalism and empiricism with the Kantian synthesis and its results will be emphasized. *Prerequisite: BTPA-2200 Introduction to Philosophy.* (odd years) **BTPA-3330 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: BTPA-2200 Introduction to Philosophy.* (even years)

BTPA-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)

BTPA-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)

BTPA-3450 Christian 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: BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature; or permission of the instructor.* (dual-listed with BTPA-6450 Christian Apologetics)

BTPA-3500 Current Religious Movements-Sp 3 hours

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

BTPA-4030 Philosophy and Literature–Sp 2 hours

Course will be divided into two sections. The first will focus on philosophy of literature, exploring literary theory, hermeneutics, and literature as a work of art. The second part of the course will examine philosophy in literature, looking at the ways in which philosophical ideas are expressed through the medium of literature. (even years)

BTPA-4250 Philosophy of Science

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)

2 hours

BTPA-4260 Philosophy of Art-Sp

2 hours

3 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)

BTPA-4290 Topics in Philosophy-Sp

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

BTPA-4900 1–3 hours

Independent Study in Philosophy-Fa, Sp, Su

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

BTPA-4910 Seminar in Philosophy–Fa 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.

School of Business Administration Course Descriptions

Accounting (ACCT)

ACCT-2110 Principles of Accounting I-Fa, Sp

An introduction to accounting for business organizations with an emphasis on financial statement preparation and interpretation. Topics include the accounting cycle, present value, and accounting for stock and debt instruments. *Prerequisite:* sophomore status.

ACCT-2120 Principles of Accounting II-Fa, Sp 3 hours

A continuation of accounting for business organizations. Topics include cash flow statements, investments, and managerial accounting concepts. *Prerequisite: ACCT-2110 Principles of Accounting I.*

ACCT-3110 Intermediate Financial Accounting I–Fa 3 hours

Theoretical concepts and accounting standards that form the basis for accounting practices, financial statement preparation, and analysis. Topics include financial statement formats, present value, and accounting for receivables and inventory. *Prerequisite: ACCT-2120 Principles of Accounting II.*

ACCT-3120 Intermediate Financial Accounting II-Sp 3 hours

Continuation of theoretical concepts and accounting standards that form the basis for accounting practices and financial statement preparation and analysis. Topics include: accounting for fixed assets, intangible assets, current liabilities, long-term debt, and stockholders' equity. *Prerequisite: ACCT-3110 Intermediate Financial Accounting 1.*

ACCT-3150 Accounting Information Systems—Sp 3 hours

A study of the flow of information through the accounting system, emphasizing systems analysis and design, internal controls, and computer applications in the business environment. *Prerequisites: ACCT-2120 Principles of Accounting II; ITM-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

Examines the computation of federal income tax liabilities for individuals and sole proprietorships. Typical course content includes income, exclusions, exemptions, deductions, credits, property transactions, and tax accounting methods. Introduces basic principles of tax research and planning *Prerequisite: ACCT-2120 Principles of Accounting II.*

ACCT-4120 Auditing-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*.

ACCT-4220 International Accounting—Sp 3 hours

This course offers information about global accounting diversity and the reasons for it. International Financial Reporting Standards (IFRS) are discussed along with the history of international standard development. Foreign currency exchange rates, transactions, and hedging are covered. Students also do research into accounting in multinational corporations. *Prerequisites:* ACCT-2110 Principles of Accounting I, ACCT-2120 Principles of Accounting II.

ACCT-4810 Seminar in Accounting-Sp 1 hour

A forum for discussion of contemporary topics and issues in accounting. Current issues will be chosen from topics in financial and managerial accounting, auditing, tax, and governmental and nonprofit accounting. Prerequisites: ACCT-3170 Managerial Accounting; ACCT-4110 Federal Income Taxes; ACCT-4120 Auditing.

Business Administration (BUS)

BUS-1000 The Business Profession–Fa, Sp 2 hours

Provides a broad and comprehensive introduction to the field of business and encourages students to discover their calling to ministry in the marketplace. Includes an introduction to the academic requirements of the program and provides opportunity for practical experience in the field of business. (Fee \$25)

BUS-2100 Business Communication—Fa, Sp 3 hours

Instruction for writing business letters, memos, email, and business reports. Oral business presentations, group collaboration, and the communication process in general are also discussed. *Prerequisite: ENG-1400 Composition*.

BUS-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-1020 College Algebra.*

BUS-2120 Statistics II–Fa, Sp 2 hours

An extension of Statistics I to include tests of hypothesis, analysis of variance, chi-square, simple and multiple regression models. *Prerequisite: BUS-2110 Statistics I.*

BUS-2150 Statistics for Business-Fa, Sp

3 hours

An introduction to statistical methods used in business decision making including descriptive statistics, probability, probability distributions, interval estimation, hypothesis tests involving variances, analysis of variance, ch-square tests, F-tests, simple and multiple regression models, model building, and time series. Prerequisites: GMTH-1020 College Algebra.

BUS-2180 Business Law I-Fa, Sp

3 hours

Examines the legal environment in which business operates. The course begins by surveying various sources and law and related ethical principles, and the structure and function of the judicial system. The remainder of the course addresses substantive areas of law, typically including torts, contracts, warranty and consumer protection, agency and employment, business entities, antitrust, intellectual property, and environmental

BUS-3000 The Business Experience-Fa, Sp

1 hour

This course is to prepare the business student to transition into the work world upon graduation. Topics and experiences include: résumé writing, interviewing, networking, internships, and business etiquette. (Fee \$25).

BUS-3150 Operations Analysis-Fa, Sp

3 hours

Introduces mathematical methods of decision analysis. Topics include probability, forecasting, decision under uncertainty, decision trees, inventory models, linear programming, and networks. Prerequisites: BUS-2150 Statistics for Business.

BUS-3180 Business Law II-Sp

3 hours

Continues the study of the legal environment in which business operates, with particular focus on topics covered on the CPA exam. Typical course content includes sales, negotiable instruments, secured transactions, bankruptcy, partnerships, securities regulation, real and personal property, wills and trusts, and insurance. Prerequisite: BUS-2180 Business Law I.

BUS-3280 Integrated Business Core Practicum-Fa

3 hours

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: ITM-1500 Information Technology for Business; ITM-1510 Software Tools for Business; ACCT-2110 Principles of Accounting I; ACCT-2120 Principles of Accounting II; BUS-2150 Statistics for Business; BUS-2180 Business Law I: ECON-2330 Microeconomics: ECON-2340 Macroeconomics. Coreguisites: MRKT-3600 Principles of Marketing; MGMT-3500 Principles of Organization and Management; FIN-3710 Principles of Finance (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 1-3 hours

A variety of courses are covered under this heading on an experimental basis. This allows the department to meet the changing needs of the students without formally adding or dropping courses. Crosslisted with ECON.

BUS-3450 Business Internship 3-12 hours

A work-study program designed for junior and senior business administration majors to receive a variety of job-related experiences in a business environment. The program is arranged and administered by the department.

BUS-3514

3 hours

Entrepreneurial Ventures in E-commerce-Sp

This course provides instruction and guidance on how to create and run a profitable, Internet-based business. Topics include reviewing intellectual property rights, designing a website to maximize revenue, developing an advertising and marketing plan for online businesses, sourcing start-up capital, utilizing analytics to test search engine optimization, and leveraging social media accounts to target consumers and grow the business. (even years) BUS-3910 International Business-Fa, Sp 3 hours

This course is a broad overview of how business is different in a global setting by introducing key concepts, terms, trends, theories and organizations. Each group will put these foundational principles into practice by developing a country analysis and business plan to launch a fast food restaurant into a new country. Additionally, students will consider how to use the principles of Business As Mission (BAM) to achieve spiritual objectives as well as profit. (Fee: \$20)

BUS-4420 2 hours

Business Ethics and Social Responsibility-Fa, Sp

Ethics asks questions about what goals one should pursue and what actions are appropriate in attempts to achieve these goals. The course examines alternative frameworks for analyzing difficult situations. Social responsibility refers to business decision making linked to ethical values, compliance with legal requirements, and respect for people, communities, and the environment. Ultimately, the course will deal with how our biblical worldview defines and drives the choices we face in the business world. Open only to seniors in business administration. Must be taken at Cedarville University; transfer or transient credit for this course will generally not be accepted.

Economics (ECON)

ECON-2110 Essentials of Economics-Fa, Sp

3 hours

The course provides an introduction to the essential principles of economics. These principles would include such areas as supply and demand, elasticity, productivity and cost analysis, economic efficiency, national income, the consumer price index, monetary and fiscal policy, business cycles, and economic performance. Course not applicable to any major from the School of Business Administration and also not open to students with credit for ECON-2330 Microeconomics and/or ECON-2340 Macroeconomics.

ECON-2330 Microeconomics-Fa, Sp

3 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

The area of economic study that focuses on how human behavior affects outcomes in highly aggregated markets, such as the market for labor or for consumer products. It is a study of the behavior of the economy as a whole, including the study of economic phenomena such as interest rates, the price level and national income, and output and employment. Prerequisite or corequisite: ECON-2330 Microeconomics or permission of instructor.

ECON-3310 Money and Financial Markets-Sp

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-3335 Intermediate Microeconomics-Fa

Microeconomics is a study of economic principles that explain how our market-directed economy organizes and coordinates production and exchange. The principles explain a wide variety of economic and social phenomena. The course studies basic economic units, households and firms, and the equilibrium through exchange among competing and cooperating people. *Prerequisites: ECON-2330 Microeconomics; GMTH-1020 College Algebra; or permission of instructor.*

ECON-3340 History of Economic Thought

Principal figures in the development of economic ideas and the contribution of each period of economic thought from the mercantilist to the present. *Prerequisite: ECON-2330 Microeconomics; or permission of instructor.*

ECON-3345 Intermediate Macroeconomics-Sp 3 hours

This course will expand on macroeconomic principles to provide an analytical framework for understanding business cycles and associated short run economic fluctuations, long-run correspondence with classical exonomic theory, as well as growth theory. Macroeconomic policy debates will be reviewed with the analytical tools developed. *Prerequisites: ECON-2340 Macroeconomics; GMTH-1020 College Algebra; or permission of instructor..*

ECON-3350 Comparative Economic Systems-Fa 3 hours

Analysis of different types of economic systems. Special emphasis is placed on centralized planning from both a theoretical and empirical perspective. Centralized economic planning is compared and contrasted with a free-market distribution of resources. Individual country case studies are included. *Prerequisite: ECON-2330 Microeconomics or permission of instructor.*

ECON-3360 International Trade and Economics-Fa 3 hours

A study of international economic theory and international trade policy. The economic basis of trade and factor mobility, the benefits of international trade, and the barriers to international trade flows will be examined. *Prerequisite: ECON-2330 Microeconomics or permission of instructor.*

ECON-3375 Mathematical Economics—Sp 3 hours

Mathematical Economics presents the mathematics required for studying economics at the graduate level. Mathematical concepts are developed in the context of economics and applications are drawn from a wide range of fields in economics including microeconomics, macroeconomics, and economic growth. The main focus of this course is on optimization; therefore the course will focus on single and multi-variable calculus techniques to provide tools to analyze economic problems. *Prerequisites: ECON-2330 Microeconomics; ECON-2340 Macroeconomics; ECON 3335 Intermediate Microeconomics; MATH-1710 Calculus I.* (odd years)

ECON-3380 3 hours

Economic Development and Political Economy-Sp

A study of the interaction of political and economic systems to produce economic development and growth of nation states. A framework for analysis of development is explored and applied to specific case studies of both industrial and developing economics that have recently undergone significant change. *Prerequisite: ECON-2330 Microeconomics; or permission of instructor.*

ECON-3390 Public Finance—Fa 3 hours

A consideration of the financing of local, state, and federal governments. Much attention is given to three functions of government: stabilization, distribution, and allocation. All major taxes that are present in the United States are studied as to structure, revenue gained, and present status. Crosslisted as PUAD. *Prerequisite: ECON-2330 Microeconomics; or permission of instructor.* (even years)

ECON-3410 Topics in Business-Fa, Sp, Su

3 hours

3 hours

1-3 hours

A variety of courses are covered under this heading on an experimental basis. This allows the department to meet the changing needs of the students without formally adding or dropping courses. Crosslisted with BUS.

ECON-4110 Introduction to Econometrics-Sp 3 hours

Econometrics is a set of research tools used to estimate and test economic relationships. The methods taught in this introductory course can also be employed in the business disciplines of accounting, finance, marketing, and management and in many social science disciplines. The aim of this course is to provide you with the skills helpful in filling the gap between being a student of economics and being a practicing economist. By taking this introduction to econometrics, you will gain an overview of how statistical techniques can increase understanding of how economic variables are related. *Prerequisites: ECON-2330 Microeconomics; ECON-2340 Macroeconomics; ECON-3335 Intermediate Microeconomics; GSS-3650 Quantitative Methodology or BUS-2150 Statistics for Business; MATH-1710 Calculus I.* (even years)

End-User Information Systems (EUIS)

EUIS-1000 3 hours

Word Processing Concepts and Applications

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

Presentation Graphics Concepts and Applications-Sp

Designed to explain basic concepts of graphics software, give detailed information about the types of graphics that are available and when to use each type, demonstrate how to create each of the major types of graphics, and teach basic design concepts. **EUIS-2010**3 hours

Spreadsheet and Database Concepts and Applications-Sp

Designed to identify concepts and terminology used with electronic spreadsheets and to identify tasks that can be accomplished with spreadsheet software. The students will be able to use the computer to create, format, edit, store, retrieve, and print worksheets, graphs, and charts. The course will also introduce the student to database management systems. Fundamentals of database management concepts will be covered using a microcomputer database application package. Topics will include table design, query, maintenance, and reports. Prerequisite: ITM-1510 Software Tools for Business.

EUIS-2200 Desktop Publishing

2 hours

Writing, assembling, and designing publications commonly found in businesses, such as newsletters, brochures, reports, and promotional materials using PageMaker software.

Finance (FIN)

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

3 hours

3 hours

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 BTAT-2730.

FIN-3310 Money and Financial Markets-Sp 3 hour

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-2150 Statistics for Business.*

FIN-3730 Investments-Sp

A study of the various types of investments including stocks, bonds, mutual funds, commercial, paper, options, and commodities. Particular emphasis is given to return and risk in developing investment strategies. *Prerequisite: FIN-3710 Principles of Finance.* (Fee \$50)

FIN-3750 International Finance—Sp

Discussion and analysis of financial management within a global context. Topics include international financial markets, foreign exchange rates and risk, exchange risk management, and other financial management issues relative to the multinational firm. *Prerequisite: FIN-3710 Principles of Finance*

FIN-3760 Financial Planning-Fa 3 hours

This course provides an introduction to the field of personal financial planning. The course includes an overview of investments, income taxation, insurance, estate planning, retirement planning, and employee benefits. *Prerequisite: FIN-3710 Principles of Finance*

FIN-3770 3 hours Security Analysis and Portfolio Management–Fa

The theory and practice of security analysis techniques and portfolio management objectives. Students research securities in order to make informed buy/sell recommendations and evaluate security and portfolio performance with a particular emphasis on common stocks. Students manage a funded portfolio. *Prerequisite: FIN-3730 Investments.* (Fee: \$20)

FIN-4700 Seminar in Finance

A forum to discuss contemporary topics and issues in finance and provide guidance in areas of student career interest. Prerequisites: ACCT-3120 Intermediate Financial Accounting II; FIN-3310 Money and Financial Markets; FIN-3710 Principles of Finance; FIN-3730 Investments.

FIN-4710 3 hours

Advanced Security Analysis and Portfolio Management Practicum—Sp

An in-depth application of investment theory and techniques. Students research securities in order to make informed buy/sell recommendations and evaluate security and portfolio performance with a particular emphasis on common stocks. Students manage a funded portfolio. Prerequisite: FIN-3770 Security Analysis and Portfolio Management. Admission to this course is limited and requires instructor approval. (Fee: \$50)

FIN-4715 Applied Portfolio Management-Fa, Sp

An in-depth application of investment theory and techniques. Students research securities in order to make informed by/sell recommendations and evaluate security and portfolio performance with a particular emphasis on common stocks. Students manage a funded portfolio. Repeatable up to three times. *Prerequisite or corequisite: FIN-3730 Investments.* (Fee: \$20)

FIN-4750 Financial Institution Management–Fa 3 hours

This course takes an in-depth look at financial institution management and covers topics such as: types of financial institutions, asset and liability management, risks faced by financial institutions, ways of dealing with those risks, and the regulatory environment in which these institutions operate. *Prerequisite: FIN-3710 Principles of Finance.* (Fee: \$20)

FIN-4770 Advanced Financial Management-Sp 3 hours

An in-depth analysis of topics of concern to financial managers of modern corporations. Topics include capital budgeting, financial forecasting, working capital management, and valuation of merger and acquisition candidates. *Prerequisite: FIN 3710 Principles of Finance.*

Information Technology Management (ITM)

ITM-1500

2 hours

Information Technology for Business-Fa, Sp

This course will focus on understanding the broad nature of information technology and how it fits in today's business world. Students will learn the nature of information technology, its application, and unique business models, as well as how to manage technology from a business value perspective. Fundamentals of the industry, technologies, and application of that technology are developed. Students will experience the IT industry through practical exploration of its breadth and depth.

ITM-1510 Software Tools for Business-Fa, Sp

2 hours

3 hours

This course emphasizes the use of software in a business environment. Students will develop a working knowledge of spreadsheet, database, and other software packages appropriate to the current business environment. (Fee: \$10)

ITM-1900 Fundamentals of IT Management–Sp 3 hours

This course is an introduction to the field of Information Technology Management (ITM) in the context of managing IT projects. Students will be introduced to computer programming concepts using a visual, software development environment. The course will then guide students through the process of managing a software development project from initial inception to final implementation. Specific topics covered in the course include: project planning, writing vision statements, identifying software requirements, prototyping, visual programming, and software testing

ITM-2100 Database Management-Fa

This course covers database fundamentals while providing a broad survey of the field's major topics. Students learn about the critical nature of databases within Information Technology Management (ITM) contexts. Topics include data storage and retrieval, data modeling, logical and physical design, concurrency and security issues, stored procedures, and triggers. Students apply those topics by creating and managing databases in a SQL Server environment. *Prerequisite: ITM-1510 Software Tools for Business.* (Fee: \$20)

ITM-2300 Introduction to Programming-Sp

3 hours

Intended as the first programming course for Information Technology Management (ITM) majors, this course will introduce the student to the process of programming and to the syntax and usage of the C# programming language. The programming assignments will encourage students to analyze problems in a logical, intentional, and structured manner so that they can develop well-constructed programs using structured and objectoriented programming techniques. Prerequisite or Corequisite: ITM-1900 Fundamentals of IT Management (Fee: \$20)

ITM-3300 3 hours

Advanced Topics in Programming Languages-Fa

This course covers advanced concepts in programming and programming languages using one or more programming languages. Topics include theories of program design and implementation, distributed architectures, business object frameworks, generics, collections, reflection, data binding, and web services. Students will apply course topics in a team project through the development of a distributed information system. Prerequisite: ITM-2300 Introduction to Programming. (even years) (Fee: \$20)

ITM-3400 Data Communications and Networking-Fa 3 hours

This course provides a study of the basic concepts of data communications and current networking technology. Topics include discussion of physical-layer considerations, higher-layer implications, and network operating systems. The concepts will be applied through a hands-on project of network design, implementation, and documentation. Prerequisite: ITM-1900 Fundamentals of IT Management or permission of instructor. (Fee: \$50)

3 hours ITM-3450 IT Security and Risk Management-Sp

This course provides an introduction to the fundamental principles and topics of information technology security and risk managment at the organizational level. Students will learn critical security principles that enable them to plan, develop, and perform security tasks. The course will address hardware. software, processes, communications, applications, and policies and procedures with respect to organizational IT security and risk management. Prerequisites: ITM 3400 Data Communications and Networking.

ITM-3500 Web Development-Fa 3 hours

This course will expose students to the process of developing information systems for the World Wide Web using the ASP.NET and C# programming languages. The focus will be on the creation of web applications to support business processes. Topics include HTML, CSS, Model-View-Controller (MVC) design paradigm, LINQ, AJAX, and web services. Prerequisites: ITM-2300 Introduction to Programming. (even years) (Fee: \$20)

ITM-3550 Enterprise Architecture-Sp 3 hours This course explores the design, selection, implementation, and management of enterprise IT solutions, The focus is on applications and infrastructure and their fit within the business. Students learn frameworks and strategies for infrastructure

management, data/information architecture, distributed computing, middleware, legacy system integration, and emerging technologies. Prerequisites: ITM-2300 Introduction to Programming.

ITM-3600 Business Process Management-Fa

In this course students will be introduced to key concepts and approaches to business process management and improvement. The course focuses on both understanding and designing business processes. Students will learn how to identify, document, model, assess, and improve core business processes. Students will be introduced to process design principles. The way in which information technology can be used to manage, transform, and improve business processes is also discussed. Prerequisites: ITM-1500 Information Technology for Business..

ITM-3650 Enterprise Systems-Sp

3 hours

This course is designed to provide students with an understanding of the theoretic and practical issues related to the application of enterprise systems within organizations. The main focus of this course is to demonstrate how enterprise systems integrate information and organizational processes across functional areas with a unified system comprised of a single database and shared reporting tools. The course includes an integrated project, which requires the application of conceptual and technical skills of students. Prerequisite: ITM-2100 Database Management. (even years)(Fee: \$50)

ITM-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: ITM-2100 Database Management; ITM-3500 Web Development. (odd years) (Fee: \$20) ITM-4300 Advanced Topics in IT Management-Sp 3 hours

This course heading covers a variety of Management Information Systems courses offered on a temporary basis. The dynamic nature of the field of MIS gives rise to the need to address recent changes in technologies, methods, and systems. (even years)

ITM-4400 Systems Analysis and Design-Fa

This course provides an understanding of the duties of the systems analyst along with a presentation of philosophies, terminology, and techniques commonly used in the Systems Development Life Cycle. Topics such as business case development, project management, requirements modeling, data design, and user-interface design will be discussed. Students will apply their skills in the completion of an integrated, analysis and design project. Prerequisite: ITM-2100 Database Management.

ITM-4450 IT Audit and Controls-Fa 3 hours

This course introduces the fundamental concepts of the information technology audit and control function. The main focus of this course is on understanding information controls, the types of controls, and their impact on the organization, and how to manage and audit them. The concepts and techniques used in information technology audits will be presented. The challenge of dealing with best practices, standards, and regulatory requirements governing information and controls is addressed. Prerequisite: ITM-3400 Data Communications and Networking. (odd vears) (Fee: \$50).

ITM-4500 System Development-Sp

Students hone their skills of project management, analysis, design, database development, web development, end-user training, and documentation, as they work in teams to develop the project that was designed in the Systems Analysis and Design course. Test-driven development is introduced and used throughout the development process. This course is the second course in a two-course sequence that forms the senior capstone experience for IT Management majors in the Application Developer track. Prerequisites: ITM 3500-Web Development; ITM-4400 System Analysis and Design. (even years)

ITM-4900 IT Strategy-Sp

MGMT-3500

3 hours

This course explores the issues and approaches in managing the information technology function in organizations and how the IT function integrates, supports, and enables various types of organizational capabilities. The course focuses on developing an intellectual framework that will allow leaders of organizations to critically assess existing IT infrastructures and emerging technologies as well as how these enabling technologies might affect organizational strategy. Critical analysis of the alignment between IT and organizational strategies is discussed. Open only to seniors in information technology management. Capstone course. *Prerequisites: Open only to seniors in ITM who have completed all 1000-3000 level business courses.*

Management (MGMT)

3 hours

Principles of Organization and Management-Fa, Sp

An examination of the policies, principles, practices, and problems involved in the management of organizations as they are currently being applied in the United States and around the world to meet or exceed customer's expectations.

MGMT-3510 3 hours

Entrepreneurship and Small Business Management-Fa

This course will introduce students to business innovation and entrepreneurship in small and large organizations. The basics of envisioning, evaluating, starting, and running a brand new business and/or a new business unit within an existing organization will be explored.

MGMT-3511 3 hours

Entrepreneurship and Small Business Strategy-Fa

This course will focus on looking for, identifying, and evaluating business opportunities, then matching business models to take advantage of them. Content will include creativity, opportunity recognition, evaluation, cognitive processes of entrepreneurs, environmental scanning, entrepreneurial business models (strategy), and will introduce initial financial elements of opportunity evaluation. *Prequisities: MGMT-3510 Entrepreneurship and Small Business Management*

MGMT-3512 3 hours

Entrepreneurship and Small Business Finance-Fa

This course will focus on the finance, accounting, and tax issues involved in operating a small business, entrepreneurial high growth firm, or family business. Content will include small business and high growth financial issues, managing cash flow, attracting financial resources, accounting issues such as the role of a forward-thinking accountant, setting up accounting systems that serve the firm strategy, and tax planning. It will also include financial elements of opportunity evaluation and exploitation as well. *Prerequisite: MGMT-3510 Entrepreneurship and Small Business Management.*

MGMT-3513 3-12 hours

Entrepreneurship and Small Business Practicum–Fa, Sp

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.*

MGMT-3520 3 hours

Production and Operations Management-Sp

Introduction to the concepts, methodologies, and application of production and operations management. Designed to develop problem-solving and decision-making skills to apply in the operations and production areas of the firm. Designed to develop an appreciation for the interaction of operations management with the management systems of organizations and the processes associated with "lean" thinking necessary to create value for the customer. Prerequisites: ACCT-2120 Principles of Accounting II; BUS-2150 Statistics for Business; MGMT-3500 Principles of Organization and Management; or permission of instructor. (Fee: \$50)

MGMT-3530 Human Resources Management-Sp 3 hours

An analysis of the principle functions, processes, and problems involved in the management of personnel policies; selection, training, promotion, compensation, and discharge of personnel; labor turnover, safety, health, and recreation. *Prerequisite: MGMT-3500 Principles of Organization and Management or permission of instructor.*

MGMT-3550 Organizational Behavior-Fa 3 hours

A study of the impact of human behavior within and upon the organizational structure. Emphasis is given to behavior as it relates to employment, absenteeism, employee turnover, productivity, human performance, and management. *Prerequisite: MGMT-3500 Principles of Organization and Management or permission of instructor.*

MGMT-3560 Project Management-Fa

This course will lay a foundation for an understanding of project management principles. It will examine principles, processes, and tools project managers have developed to effectively manage and lead projects.

MGMT-3570 International Management-Sp 3 hours

Focuses on the principles of management in a global economy. Exporting and foreign direct investment are analyzed from the multinational perspective. Strategy, organizational structure, and control techniques are developed in a world environment. Prerequisite: MGMT-3500 Principles of Organization and Management.

MGMT-3580 3 hours

Compensation and Benefits Management-Sp

An introduction to the concepts, methodologies, and application of compensation and benefit programs within human resources. Designed to develop problem-solving and decision-making skills in the area of compensation and benefits. Students will also learn to develop "lean" thinking necessary to create value for stakeholders in organization through this human resources function. *Prerequisites: MGMT-3500 Principles of Organization and Management; MGMT-3530 Human Resources Management; or permission of instructor.* (odd years)

MGMT-4510 Strategic Management-Fa, Sp 3 hours

This capstone course requires the synthesis of the knowledge and skills gained through your previous business courses. Your group will complete a comprehensive situation analysis (SWOT), and then develop eight possible strategies for a publicly traded company—finally selecting one rationalized strategy, using an M&A tactic, and present to the class. Open only to seniors in business administration within 2 semesters of graduation. Must be taken at Cedarville University; transfer or transient credit for this course will generally not be accepted. Capstone course. *Prerequisites: FIN-3710 Principles of Finance; MGMT-3500 Principles of Organization and Management; MRKT-3600 Principles of Marketing.* (Fee:\$50)

MGMT-4520 Supply Chain Management-Fa

3 hours

Introduces students to key concepts in supply chain design, planning, and operations. Typical content includes the supply chain strategic environment, designing appropriate networks, forecasting demand and supply, planning and managing inventories, sourcing and transporting products, supply chain coordination, and the impact of technology on supply chain management. Course methodology emphasizes application of concepts through case study, plant tours, and presentations. *Prerequisites: BUS-2150 Statistics for Business; MGMT-3520 Production and Operations Management.* (Fee: \$50)

MGMT-4530 Industrial Relations Management-Fa 3 hours

The interplay between market forces and institutional rules that determine the employment relationship. Labor history, the effects of changing public policies, trade unions, and collective bargaining are viewed from various international perspectives. Prerequisites: MGMT-3500 Principles of Organization and Management.

MGMT-4540 Service Operations Management-Fa 3 hours

An introduction to the concepts, methodologies, and applications in service operations. Designed to develop problem-solving and decision-making skills to apply in service firms. Students will also learn to develop "lean" thinking necessary to create value for customers in the service sectors. Prerequisites ACCT-2120 Principles of Accounting II, BUS-2150 Statistics for Business, MGMT-3500 Principles of Organization and Management. (Fee: \$25) (odd years)

MGMT-4550 Applied Leadership–Fa, Sp 3 hours

This is an advanced course about managing people and organizations in the 21st century. It is intended for seniors who will soon face the challenge of leadership and influence in the workplace, in business and other disciplines. This course will integrate and apply what students need to meet the leadership challenge. Prerequisite: MGMT-3500 Principles of Organizational Management; or permission of instructor.

MGMT-4560 3 hours

Organizational Change and Development-Sp

This course focuses on the theories, concepts, processes, and tools of leading successful organizational change, as changes involve sensitivity to issues that arise at the individual, interpersonal, and institutional levels as well as building the organization's capacity to both adapt to change and generate innovation. *Prerequisite: MGMT-3500 Principles of Organization and Management or permission of instructor.*

MGMT-4570 Lean Operations Management-Sp 3 hours

This course expands on critical topics in the field of operations management, including the operations management strategy and tools and contemporary topics such as "Lean" techniques, value-stream mapping, and Fundamentals of Six Sigma. Prerequisite: MGMT-3520 Production and Operations Management; or MGMT-4540 Service Operations Management; or permission of instructor. (Fee: \$50)

Marketing (MRKT)

MRKT-3600 Principles of Marketing-Fa, Sp 3 hours

This course examines the marketing processes of businesses and other types of organizations from an analytical perspective. Special attention is placed on the marketing environment and the needs and behaviors of market segments as key drivers of marketing planning for positioning, product, pricing, distribution, and communication strategies and tactics. *Prerequisite: junior status or permission of instructor.*

MRKT-3610 Sales/Sales Management Systems-Sp 3 hours

Principles employed in the development, administration, and strategy of a sales force. Professional selling from a Christian perspective along with training, managing, compensating, and motivating a sales force. Prerequisites: MGMT-3500 Principles of Organization and Management; MRKT-3600 Principles of Marketing.

MRKT-3630 Marketing Research-Sp

3 hours

This course examines marketing research methods to understand how they generate different types of information relevant to the identification and solution of problems in marketing. Students will complete a research project that will teach them how to formulate marketing problems, design relevant studies, collect and analyze data, draw appropriate conclusions, and make recommendations that lead to sound marketing actions. Prerequisite: BUS-2150 Statistics for Business; MRKT-3600 Principles of Marketing; MRKT-3650 Consumer Behavior.

MRKT-3650 Consumer Behavior-Fa

3 hours

This course examines behavioral concepts and theories from psychology, sociology, anthropology, and economics. Primary focus is on identifying and/or creating consumer behavior models that inform marketing research and produce insights that guide appropriate marketing decision making and strategy development. *Prerequisite: MRKT-3600 Principles of Marketing.*

MRKT-3660 Integrated Marketing Communications-Fa 3 hours

This course represents the various ways in which an organization "voices" appropriate messages in response to the needs of the market. This course prepares students to create, implement, and assess effective communication strategies that coordinate traditional communication tools (advertising, sales, public relations, publicity, sales promotion, packaging) with more contemporary tools (electronic and social media) to accomplish specific communications and marketing objectives. *Prerequisite: MRKT-3600 Principles of Marketing.*

MRKT-3670 Business-to-Business Marketing-Fa 3 hours

Business-to-Business Marketing represents a much larger sector of economy and a greater number of jobs than consumer marketing. This course prepares students to effectively manage the unique strategic challenges of marketing goods and services to businesses, governments, and institutions. *Prerequisite: MRKT-3600 Principles of Marketing.*

MRKT-3680 Nonprofit Marketing-Sp

3 hours

Designed to acquaint the student with skills, abilities, and attitudes necessary to effectively implement marketing practice in nonprofit organizations. *Prerequisite: MRKT-3600 Principles of Marketing or permission of instructor.*

MRKT-3690 Services Marketing-Sp

3 hours

The vast majority of the global economy is based on service organizations that perform tasks on behalf of their customers. As compared to physical goods, services are uniquely challenging to market because the product 1) is largely intangible, 2) varies more in quality, 3) often involves customers in the production process, and 4) cannot be inventoried for future sale. This class is designed to help students prepare to meet those challenges in the marketplace. *Prerequisites: MRKT-3600 Principles of Marketing*

MRKT-4610 Marketing Strategy-Sp

3 hours

This is the culminating course for marketing majors. Its purpose is to build on what has been learned in prior marketing and business course work in order to form a comprehensive and integrated perspective of strategic marketing management. Students will apply their knowledge in broad-based contexts in order to deepen their ability to develop cohesive and effective strategic and tactical marketing plans. Must be taken at Cedarville University; transfer or transient credit for this course will generally not be accepted. Prerequisites: senior status; twelve hours of marketing including MRKT-3600 Principles of Marketing, MRKT3630 Marketing Research, and MRKT-3650 Consumer Behavior.

MRKT-4620 International Marketing-Fa

3 hours

The challenges of discovering and pursuing opportunities for effectively marketing goods and/or services globally are immense. This course involves an intensive investigation of the environmental factors (economic, financial, cultural, political and legal) that must be thoroughly understood and factored into the development of global marketing strategies. Prerequisite: MRKT-3600 Principles of Marketing.

Sport Management (SMGT)

SMGT-1000 Sport Management Practicum-Fa, Sp 1 hour

An on-campus sport management opportunity for students in the sport management major to be involved in a variety of activities compatible with athletic and recreational sporting events and experiences. A minimum of 30 hours is required for each practicum. Prerequisites: SMGT-1350 Introduction to Sport Management; departmental approval. Credit/no credit.

SMGT-1350 Introduction to Sport Management-Fa 3 hours

This course is designed to introduce the student to the dynamic nature of sport management and the potential for successful and satisfying career opportunities.

SMGT-2100 Sport in Society-Sp

3 hours

The purpose of this course is to expand the student's understanding of sport by investigating how sport and society interact. The relationship of sport to social variables, institutions, and social issues/problems will be examined. Prerequisite: SMGT-1350 Introduction to Sport Management.

SMGT-2500

3 hours

Organizational Behavior in Sport-Fa, Sp

This course will help students define and understand the concepts of management and leadership within sport organizations. There will be a focus upon the various skills, roles, and functions of sport managers. This course places sport organizations in the context of their environment and emphasizes the manager's role in adapting and reacting to changes in the environment. Prerequisites: SMGT-1350 Introduction to Sport Management.

SMGT-2910

1 hour

Campus Sport 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 their sport management responsibilities for a required minimum of 30 hours total. Prerequisite: Sophomore status or permission of the instructor.

SMGT-2920

Recreation Management Practicum-Fa, Sp

This practicum provides the sport management major the opportunity to assist a recreation management employee/ volunteer with their responsibilities for a required minimum of 30 hours total. Prerequisite: Sophomore status or permission of the instructor.

SMGT-3180 Legal Issues in the Sport Industry-Sp

This course will focus on the three major areas of law that have a direct impact on the management of sport: tort liability and risk management, contract law, and constitutional law. Prerequisite: Junior status.

SMGT-3200 Facility Design and Management-Fa 3 hours

This course includes planning and designing areas and facilities in sports and utilization of those facilities for sporting events. Topics will include maintenance, supervision, scheduling, planning, renovation, etc. Prerequisite: Junior status or permission of the instructor. (Fee \$35)

SMGT-3300 Event Planning and Production-Sp

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 3 hours

Sponsorship and Promotion in the Sport Industry-Fa This course builds upon basic principles of marketing by applying promotional and sponsorship activities to the sport and fitness industry. Areas of application include professional sport, intercollegiate sport, olympic sport, interscholastic sport, fitness

clubs and resorts.. Prerequisite: Senior status or permission of the instructor. (Fee: \$65)

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 their responsibilities for a required minimum of 30 hours total. Prerequisites: SMGT-3200 Facility Design and Management; SMGT-3300 Event Planning and Production.

SMGT-4990

9-12 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)

Department of Communication Course Descriptions

Broadcasting and Digital Media (BRDM)

BRDM-1110 Introduction to Broadcasting and Digital Media-Fa

3 hours

A survey of electronic media, including history and development, types, audience research, regulations, and globalization.

BRDM-1120 Audio Technical Training-Fa, Sp 3 hours

Students receive instruction and training in the operation of software and hardware used in audio media. The course focuses on gaining knowledge and experience with Pro Tools software and audio hardware including microphones, control surfaces and interfaces, signal processors, audio monitors, etc. Students in the course will use these tools to produce several audio projects. (Fee: \$45)

BRDM-1210 Media Performance-Sp

3 hours

Examines announcing for a variety of applications including: commercial, audio book, interviewing, news, sports, and music radio. The emphasis is on the application of key principles through assignments that focus on use of the voice as a tool for communication of ideas on a one-to-one basis. (Fee: \$45)

BRDM-2110 Video Technical Training-Sp 3 hours

This course provides hands-on training with all video production equipment, including cameras, lighting, sound, and editing. The student will learn basic television skills and technical terms. (Fee: \$45)

BRDM-2130 Writing for Electronic Media–Fa 3 hours

Covers the form and style of writing for radio, television, and interactive media. Work in the course includes news writing, public service announcements, promotional announcements, advertisements, video scripting, and writing for the web. (odd years)

BRDM-2220 Sound Design-Sp 3 hours

This course is designed to prepare the media production student to create sound designs for radio, television, film and other audio media by studying the nature of sound, psychoacoustics, the power of the voice, sound effects, and music and how they can be used in combination with visual image to influence listeners/ viewers. Students will create and execute a variety of sound designs for radio, television, and other audio media. *Prerequisite: BRDM-1120 Audio Technical Training*. (Fee: \$45)

BRDM-2320 3 hours Preproduction and Planning for Video and Film-Fa, Sp

This course examines the framework for preparation for video and film production in fiction and nonfiction programming. The duties of the producer and director are covered as they relate to scripting, budgets, legalities, scheduling, site surveys and other related preproduction duties for studio and field productions. (Fee \$45)

BRDM-2350 3 hours

Introduction to Graphics for TV and Film-Fa

An introduction to the creation of graphics for television and film. Topics covered include motion graphic principles, network package graphic creation, and training in Adobe After Effects. (Fee: \$45).

BRDM-2606 2 hours

Introduction to Computer Animation-Fa

An introduction to the use of 3D animation software. The course focuses on learning the basics of Autodesk Maya and general principles and workflow for 3D computer graphics in production work. (Fee: \$45)

BRDM-2810 Sophomore Seminar–Fa 1 hours

The sophomore seminar in broadcasting and digital media is designed to acquaint students with current trends in the electronic media and to aid students in understanding key concepts for building a successful career including networking, professional development, résumé and portfolio development, and strategies for career entry in the electronic media field. *Prerequisite: BRDM-1110 Introduction to Broadcasting and Digital Media.*

BRDM-3111 3 hours

Survey Research for Electronic Media-Sp

The study of survey research methodologies used in electronic media, including audience analysis; program and screen design testing; station and website ratings. Includes an introduction to academic research in electronic communication using survey methodologies. *Prerequisite: BRDM-1110 Introduction to Broadcasting and Digital Media.* (Fee: \$15)

BRDM-3150 Media Ethics-Fa

2 hours

3 hours

Development of an applied theistic ethic for media practitioners. Topics for ethical examination include media content, business practices, advertising, journalism, privacy, and intellectual property rights. Crosslisted with JOUR-3150. *Prerequisite: junior or senior status.*

BRDM-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.

BRDM-3210 Digital Audio Post Production-Fa 3 hours

This course is designed to teach the theories, principles, and practices of multi-track studio production. Students will produce a number of audio projects for radio, television, and film in the Pro Tools HD production environment. *Prerequisite: BRDM-1120 Audio Technical Training*. (Fee: \$45)

BRDM-3211 Digital Music Production—Sp 3 hours

This course offers students hands-on experience with modern mixing techniques, specifically utilizing Pro Tools HD hardware and software. Current theory and methods of signal processing utilized in the mix down process are covered. Each student will have the opportunity to track, edit, mix, and master professional musicians. This class is for the serious student of audio who is interested in learning about the music production process. *Prerequisites:* BRDM-1120 Audio Technical Training and BRDM-3210 Digital Audio Post Production. (Fee: \$45).

BRDM-3215 Live Sound-Fa

This course will prepare the student for work in live sound for churches and other venues. Through a series of lectures and labs, students will learn how to set up and operate a PA systems, operate mixers/consoles/control surfaces, trouble shoot problems in audio set-up, mix live sound, complete stage set-up, and the selection of microphones, amps, mixers, speakers and monitors. *Prerequisite: BRDM-1120 Audio Technical Training.* (Fee: \$45)

BRDM-3216 Audio for Video and Film-Sp 3 hours

Audio for video/film will expose the student to the theories and the practical challenges of gathering audio in the field as a part of a video/film project. The course will also focus on working with sound in the studio during post-production and will include areas such as automatic dialogue replacement and Foley sound effects. Students will record and produce all of the sounds for a major film project. *Prerequisite: BRDM-1120 Audio Technical Training and BRDM-3210 Digital Audio Post Production.* (Fee: \$45).

BRDM-3310 Digital Film Production—Fa 3 hours

Taught from the producer's perspective. Hands-on training dealing with all the variables in making a video's and short films, including preproduction, production, and post-production nonlinear editing platforms. *Prerequisite: BRDM-2110 Video Technical Training or approval from the instructor.* (Fee: \$45)

BRDM-3330 Screenwriting-Fa 2 hours

An advanced writing course for students interested in learning the formal construction involved in writing a professional screenplay, with emphasis on dramatic writing and strong character development. (even years)

BRDM-3350 Documentary Film-Sp 3 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: \$45) (even years)

BRDM-3355 VFX and Compositing for TV and Film-Fa 3 hours

This course deals with the creation of computer-generated visual effects and the process for compositing those effects into live action footage. Topics include VFX creation, image matching and manipulation and compositing techniques using industry standard software. *Prerequisites: BRDM-2350 Introduction to Graphics for TV and Film.* (Fee: \$45)

BRDM-3370 Documentary Film-Style Production-Sp 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. *Prerequisite: BRDM-2110 Video Technical Training.* (Fee: \$45) (odd years)

BRDM-3410 Broadcasting and Media Sales-Fa 3 hours

The course focuses on developing an understanding of the theory and practice of the sale of advertising for a variety of electronic media. Students will study and apply client and product research, advertising strategies, sales technique, and presentational methods. Sales executives work with the class to develop the knowledge and skills described above and to help them select and work with a media client to develop an advertising campaign. *Prerequisite: BRDM-3111 Survey Research for Electronic Media*.

BRDM-3420 3 hours

Broadcasting and Media Management-Sp

This course is designed to acquaint the student with the concerns facing the management of a media company including legal requirements of the FCC, personnel management, implementation of programming, and station acquisition. *Prerequisite: BRDM-3111 Survey Research for Electronic Media.* (Fee:\$45)

BRDM-3605 3 hours

Writing and Design for Web and Mobile Media-Sp

The purpose of this course is to introduce students to the special design and writing necessary for emerging new media, including the web, mobile media, and social networking sites and services. Crosslisted with JOUR.

BRDM-3611 Web Analytics–Fa 3 hours

The study of methods for gathering and interpreting Web tracking and usage data. The approach taken is a consumercentric strategic analysis called Key Insights Analysis which has as its goal delivery of actionable insights and matrices for website developers. (Fee: \$15)

BRDM-3620 Digital Compression and Streaming-Fa 3 hours

The course deals with the preparation and delivery of digital media files. Topics include digital media file formats, methods for compression of audio and video files and methods of streaming digital media files over the Internet via Web sites. *Prerequisite:* BRDM-1120 Audio Technical Training; BRDM 2110 Video Technical Training. (Fee: \$45)

BRDM-3630 Principles of Computer Animation-Sp 3 hours

Application of the principles of traditional cell-based animation to computer animation, as well as the effective use of animation for communication.

BRDM-3650 Networked Audience—Fa 3 hours

Students will develop a framework for understanding the audience by looking at the intersection of a wide variety of factors that shape the media environment. The students will then project current trends to anticipate where the audience will be in the next five years. Crosslisted with JOUR. *Prerequisite: Junior or senior status*. (Fee: \$10)

BRDM-3720 Audio Production Practicum—Fa, Sp 1

The practicum is designed to place the student in a variety of professional settings on and off campus, with the purpose of allowing the student to practice audio skills acquired in earlier courses. The course is repeatable for a total of two hours. *Prerequisites: BRDM-1110 Introduction to Broadcasting and Digital Media; BRDM-1120 Audio Technical Training.* (Fee: \$45)

BRDM-3731 Video Production Practicum–Fa, Sp 1 hour

Production on a video crew in large auditorium production as assigned by the instructor. The course is repeatable for a total of six hours. (Fee: \$45)

BRDM-3733 Sports Production Practicum—Fa, Sp 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. (Fee: \$45)

BRDM-3734 Film Practicum—Fa, Sp 1

Production on a digital film crew as assigned by the instructor. BRDM-3741 Sales and Management Practicum–Fa, Sp 1 hour

The practicum is designed to place the student in a variety of professional settings on and off campus, with the purpose of allowing the student to observe and practice sales and management skills acquired in earlier courses. The course is repeatable for a total of three hours. *Prerequisites: BRDM-3410 Electronic Media Sales; BRDM-3420 Broadcasting and Media Management; junior or senior status; permission of the instructor.*

BRDM-3761 Interactive Media Practicum—Fa, Sp 1 hour

The student will develop an interactive medium product, such as a webpage or as a member of a production team under the supervision of a faculty mentor. Repeatable for a total of 2 credit hours. *Prerequisite: BRDM/JOUR-3605 Writing and Design for Web and Mobile Media.* (Fee: \$45)

BRDM-3765 Animation Practicum-Fa

1 hour

The student will develop an animation project individually or with a team, working under the supervision of a faculty mentor. Repeatable for a total of 2 credit hours. *Prerequisites: BRDM-3630 Principles of Computer Animation; permission of faculty mentor.* (Fee: \$25)

BRDM-4110 Electronic Media Law and Regulation-Fa 3 hours

A study of the legal protections and requirements placed upon the electronic media. Emphasis is placed upon court decisions that help to define First Amendment freedoms for those in the media, as well as regulations placed upon the electronic media.

BRDM-4155 Image and Word in a Visual Culture—Fa 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.

BRDM-4310

3 hours

Advanced Cinematography and Lighting-Sp

Taught from the director's perspective, each student will lean advanced digital film production techniques including camera movement, lighting techniques, and non-linear editing advanced use of effects and color correction. *Prerequisite: BRDM-2110 Video Technical Training; BRDM-3310 Digital Film Production.* (Fee: \$45)

BRDM-4410 Media Marketing and Promotions-Fa 3 hours

This course will explore issues involved in managing a firm's promotional operations, including advertising, sales promotion, personal selling, public relations, institutional promotion, and publicity. Promotional strategy, objective setting, communication models and listener/viewer response, competitive positioning, legal issues, media strategy, planning and design, and measurement of promotion effectiveness are also studied. Prerequisites: BRDM-1110 Introduction to Broadcasting and Digital Media, and BRDM-3420 Broadcasting and Media Management

BRDM-4650 3 hours

Designing Solutions for New Audiences-Sp

Because of the ongoing changes in the communication system, media companies and businesses are in constant reinvention of the ways in which they meet the needs of their audiences by innovations in programming, products and services. In this course students will be presented with a current problem in the use of new and emerging media to connect a client with its audience. Teams will then design a solution to meet the needs of both client and audience. Crosslisted with JOUR. *Prerequisite: BRDM/JOUR-3650 Networked Audience.*

BRDM-4700 Special Topics in Electronic Media-Fa, Sp3 hours

Available to advanced students who desire intense study in special areas of electronic media. *Prerequisites: junior or senior status as an broadcasting and digital media major; permission of the faculty mentor.*

BRDM-4710 Independent Study: Digital Media 1-3 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.*

BRDM-4810 Senior Seminar-Fa, Sp

The course is designed to help the student transition from the college to professional world. Students will interact with professionals to network and to focus on developing résumés and portfolios, interviewing skills, and an understanding of business etiquette. *Prerequisite: senior status as broadcasting and digital media major.* (Fee: \$45)

BRDM-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 course. Capstone course. Prerequisites: BRDM-3111 Survey Research for Electronic Media; GPA of 3.0 in major courses; senior status; permission of BRDM faculty. (Fee: \$35)

BRDM-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 courses; senior status; approval by the electronic media faculty.*

Communication Studies (COM)

COM-1100 Fundamentals of Speech-Fa, Sp

3 hours

Public speaking and strong verbal communication skills are critical components of many careers. Students learn to inform others about ideas, advocate for a position, work in groups and teams, listen and critique messages, and practice conflict resolution. These skills are imperative to prepare students for an increasingly diverse workforce.

COM-1120 Honors Speech-Fa

3 hours

Exposes students to and prepares them for competition in the three general areas of intercollegiate forensic competition: oral interpretation (prose, poetry, dramatic-duo), public speaking (persuasion, informative, communication analysis), and limited preparation events (impromptu and extemporaneous speaking). *Prerequisites: Audition; permission of instructor.*

COM-1150 Communication Seminar-Fa, Sp

1 hour

A foundational seminar to provide students with a background in the discipline of communication and an orientation to the professional standards of the discipline.

COM-1230 Voice for the Performer-Fa

3 hours

See course description for THTR-1230 Voice for the Performer.

COM-2000 Persuasive Theory–Fa

3 hours

Methods of applying contemporary communication theories on attitudes, involvement, and change are studied along with classical positions on the principles and methods of attitude change and advocacy.

COM-2050 Communication Theory–Fa, Sp

3 hours

Introduction and critical assessment of communication theories that underlie interpersonal, group, organization, public, mass media, and cultural studies.

COM-2140 Intercultural Communication—Fa, Sp 3 hours

Provides the foundations of the way communication functions in intercultural settings with a focus on the way culture affects communication. Students learn to identify cultural differences, understand adaptation processes and learn communication effectiveness in cross-cultural contexts.

COM-2200 3 hours

Communication in Applied Contexts-Fa, Sp

Provides students with an opportunity to develop their speaking skills beyond Fundamentals of Speech, emphasizing the use of technology, professional use of public address, and preparation for upper-level applied and speaking courses. *Prerequisite: COM-1100 Fundamentals of Speech or COM-1120 Honors Speech.*

COM-2220 Quantitative Research—Fa

3 hours

Students select samples, write surveys, conduct interviews, and administer experiments to discover how communication works in both personal and professional settings. Learning formal methods of inquiry encourages critical thinking, problem solving, good writing, and personal effectiveness. Quantitative research trains students to seek explanations, find answers, and test solutions.

COM-2225 Qualitative Research-Sp

3 hours

3 hours

Students conduct interviews, observe interactions, and analyze documents and discourse to understand the cultural and organizational contexts in which they are a part. Qualitative research produces knowledge that promotes effective communication with unique people in particular situations.

COM-2300 Voices of Diversity-Fa, Sp

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.

1 hour

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-2330 3 hours

Writing for Communication Professions-Fa

This course covers the form and style of writing for internal and external communication, including use of social media and persuasive writing. Course work includes writing executive summaries, memos, proposals, reports, grants, press releases, and opeds as part of a semester-long project. Students will also learn to manage communication in email, Twitter, and Facebook.

COM-2440 Advanced Forensics-Fa, Sp

1 hour

Advanced training for intercollegiate forensic competition. Focus on literary and rhetorical criticism, extemporaneous speaking, and the writing of original oratory. Repeatable up to six hours.

COM-2510 Media History-Sp

3 hours

This course offers the historical foundations of mass communication from colonial America to the present. Focuses on the growth of news and entertainment media within a social, political, and economic framework of each era of development. Particular attention is given to the interaction of minority and mainstream media.

COM-2520 Virtual Communication-Fa

3 hours

This course will teach students how to be successful biblical and professional virtual communicators through hands-on practice of successful online communication principles and techniques.

COM-2820 Political Communication—Fa 3 hours

A survey of the theory and practice surrounding the relationship between media and politics. Issues such as the role of media in promoting democracy; media effect theories, political knowledge, and the public's response to news; and the role of public opinion in an open society will be explored. (even years)

COM-3100 Advanced Public Speaking- Sp

3 hours

Emphasizes the creative, logical, and audience-centered thinking needed for excellent public address. Students exhibit logical communication skills through writing and speaking assignments. *Prerequisite: COM-2200 Communication in Applied Contexts*.

COM-3120 Argumentation-Sp

3 hours

The study of principles and practices of critical thinking and argumentation. Course includes an overview of debate theory as a vehicle for argumentation as well as the theory involved in logical preparation and refutation of a position.

COM-3150 Gender, Politics, and Communication—Fa 3 hours

Using communication theory and biblical application, this course studies the patterns and the effects of communication upon male and female genders identifying the political struggles that are a part of gender relationships and communication. The women's movement, contemporary masculinity studies, and the Christian church's response to gender issues are surveyed.

COM-3230 Organizational Communication—Sp 3 hours

The study using communication for organizational structure. The course focuses on major organizational theories, topics, and their communicative implications. The role of communication during conflict management, negotiation, crisis management, and small group process in the organizational context. (Fee: \$10)

COM-3240 Interpersonal Communication—Sp 2 hours

Centers on the nature and function of interpersonal communication as it operates within casual encounters, families, organizations, and institutions. Implications for personal, social, and professional growth will be considered.

COM-3250 Interviewing-Fa, Sp

3 hours

Focuses on the study of fundamental interviewing principles. Instruction and training are offered across a variety of interviewing situations, including informational, employment, and persuasive interviews.

COM-3260 Organizational Negotiation—Fa

3 hour

Focus on communication and the negotiation process in the organizational context, coverage of negotiation theories, elements of the negotiation process, and negotiation formats (e.g., salary negotiations, budget negotiations, collective bargaining, etc.).

COM-3330 Organizational Training-Fa

2 hours

Focuses on trainer skills essential for training the adult employee in an organizational setting. Techniques and learning resources are presented to aid the trainer in assessing training needs. Prerequisite: COM-3230 Organizational Communication or permission of instructor.

COM-3350 Event Planning-Sp

3 hours

This course introduces students to event planning processes and techniques. Emphasis is on creating, organizing, planning, processing, marketing, implementing, and evaluating a wide variety of events. Focus includes information and resources applicable to community, professional, private, nonprofit and forprofit events.

COM-3450 Forensics/Individual Events-Fa, Sp

1 hour

Students receive individual coaching for participation in intercollegiate speech competition. Areas of competition include oral interpretation, public speaking, and limited preparation events. *Prerequisite: permission of instructor.*

COM-3451 Debate Practicum-Fa, Sp

1 hour

Students receive individual coaching for participation in intercollegiate debate competition. *Prerequisite: permission of instructor.* Credit/no credit; repeatable up to six times.

COM-3500 Storytelling-Sp

3 hours

The history, development, and usage of storytelling is presented in a format where the student participates in developing skills as a teller. Students are assisted in developing their own style and method for presenting stories. Open to all majors.

COM-3550 Advocacy Communication–Fa

3 hours

This course studies advocacy as it relates to social and political change. Advocacy communication requires unique practices that rely on public speaking skills and analysis of advocacy discourse. Students will think critically about current social, political, and ethical issues and will develop persuasive and strategy skills as they practice how to mobilize the public, influence public opinion, and negotiate policy decisions. These skills are useful to those anticipating careers in politics, consulting, speechwriting, law, sales, nonprofits, and religion.

COM-3650 2 hours

Clinical Methods in Teaching Speech-Fa, Sp

Students seeking certification for teaching speech will gain classroom experience. One credit hour equals 20 classroom hours. Department staff members will supervise all assignments. Credit/no credit.

COM-3710 Narrative and Cultural Literacy-Sp 3 hours

An examination of early New Testament and American cultural narratives helps students examine current communication practices using biblical, critical, and theological perspectives.

COM-3810 Speechwriting for the Professional-Sp 3 hours

This course focuses on the skills necessary to research for and effectively write a variety of public messages. Students will practice using the skills necessary for effective communication in organizational, political, and nonprofit contexts. Theory that enriches the understanding of speech writing will be presented and applied. *Prerequisite: COM-3100 Advanced Public Speaking.*

3 hours

3 hours

COM-3840 Media Analysis-Fa

3 hours

Overviews the study and application of theories that analyze and critique news, and film media. Theories of media criticism will be presented, along with a Christian view. Students will produce critiques of media using the theories presented and integrating a Christian worldview into their analysis.

COM-4060 Organizational Leadership-Fa, Sp 3 hour

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 U.S. political communication. Seeks to integrate the study of political messages and the current political culture. *Prerequisite: COM-4110 History of Public Address or permission of instructor.*

COM-4610 Communication Ethics—Sp 2 hour

Seminar focuses on how to reason biblically about ethical issues. Surveys contemporary Christian ethicists; examines issues of concern to the Christian community; suggests communication dynamics that build Christian social ethics.

COM-4640 Special Topics—Fa, Sp 2–3 hours

Topics of important interest are examined on an as-needed basis.

COM-4710–4760 Independent Study COM-4710–General Communication–Fa, Sp COM-4720–Organizational Communication–Fa, Sp1–3 hours COM-4750–Media–Fa, Sp COM-4760–Forensics–Fa, Sp 1–3 hours 1–3 hours

Taken to secure an in-depth background in one of the areas of communication. Repeatable to a total of eight credit hours in the field. *Prerequisite: permission of instructor.*

COM-4850 Senior Seminar-Sp 1 hou

A transitional seminar to provide students with the opportunity to culminate their academic program and begin the orientation to the professions of communication. The course will prepare students for employment demands, revise resumes, develop interview skills, and establish networking techniques for success in their communication profession.

COM-4900 3–12 hours

Internship in Communication-Fa, Sp, Su

Students are placed with professional organizations to gain experience in actual career situations. Internships depend upon availability.

COM-4950 Applied Capstone–Fa, Sp 3 hours

This course is the culmination of the major in Communication. It provides an opportunity for students to bring together the academic training and professional skills in a focused application. Students work with an advisor to develop a project culminating their program of study in one of four options selected with approval of the capstone coordinator and the faculty advisor. All capstone projects will be presented in written and/or public forum. Prerequisites: COM-2050 Communication Theory or COM-2320 Theories of Mass Media and COM-2220 Quantitative Research or COM-2225 Qualitative Research. (Fee: \$15)

Journalism (JOUR)

JOUR-1000 Introduction to Media Writing-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 Introduction to Reporting-Sp 3 hours

This course is designed to develop and enhance the primary journalistic skills presented in JOUR-1000. The objective for this course 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 Introduction to Media Writing.* (Fee: \$50)

JOUR-2500 Introduction to Public Relations—Fa 3 hours

This course acquaints students with the foundations of public relations as a profession. The course includes discussion of key individuals and events in its development. It provides an overview of the theoretical aspects of public relations practices and techniques. The media relationship of public relations practitioners to the mass media is examined. Codes of ethics for practitioners are also explored.

JOUR-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*.

JOUR-3150 Media Ethics-Fa 2 hours

This course examines the rights and responsibilities of the journalist in American society. It examines and applies federal and state laws and regulations associated with the media. Topic areas will include the journalist and the first amendment, access to government information, libel, and privacy. Special attention will be given to legal issues related to new media. Crosslisted with BRDM-3150. *Prerequisite: junior or senior status.*

JOUR-3310 3 hours

Advanced Newswriting and Reporting for Broadcasting—Sp Building on basics of newswriting, this course 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*. (Fee: \$50)

JOUR-3320 3 hours

Advanced Newswriting and Reporting for Print-Fa

This course 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 course. The challenges of sound reporting after 9/11 will be discussed. *Prerequisite: JOUR-2000 Introduction to Reporting.* (Fee: \$50)

JOUR-3350 Television News Production-Fa

3 hours

This course 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-3320 Advanced Newswriting and Reporting for Print. (Fee: \$50)

JOUR-3420 Editing and Design-Sp

3 hours

This course will teach students the methods to edit news stories for publication. In this course, students will learn the role of the editor in the news process and the editorial skills to prepare news stories for publication. The course will also cover the development of appropriate headlines and methods of designing story layout in ways that are clear and appealing to a target audience. Students will be taught to bring both a detailed and holistic approach to the development of the news story for printed media. Current developments in the field of editing and design will be applied to contemporary news events to facilitate application of the principles of the course. Prerequisites: JOUR-3310 Advanced Newswriting and Reporting for Broadcasting; JOUR-3320 Advanced Newswriting and Reporting for Print. (Fee: \$50)

Public Relations Principles and Writing-Sp

JOUR-3500

This course provides instruction in effective public relations communication both within organizations and to various media outlets. Students develop problem-solving approaches to PR challenges and apply appropriate written, visual, and spoken messages to audiences using different media of communication. Prerequisite: JOUR-2500 Introduction to Public Relations.

JOUR-3550 Advanced Public Relations Writing-Sp

3 hours

3 hours

Building on the basics of public relations principles and writing, this course provides the opportunity to focus on particular writing techniques employed in specialized public relations contexts. This includes writing for internal publics in the form of reports, proposals, backgrounders, and position papers. In addition, students will learn to write for external publics in print, broadcasting, and online media contexts, developing proficiency in presentational and speech communication, news, feature and advertising copy. Prerequisite: JOUR-3500 Public Relations Principles and Writing.

JOUR-3600 Computer-Assisted Reporting-Fa 3 hours

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 email. Prerequisites: JOUR-3310 Advanced Newswriting and Reporting for Broadcasting; or JOUR-3320 Advanced Newswriting and Reporting for Print. (even years) (Fee: \$50)

JOUR-3605 3 hours

Writing and Design for Web and Mobile Media-Sp

The purpose of this course is to introduce students to the special design and writing necessary for emerging new media, including the web, mobile media, and social networking sites and services. Crosslisted with BRDM.

JOUR-3650 Networked Audience-Fa 3 hours

What is happening to the audience for media content and how is that likely to change over the next five years? That is the question that this course seeks to answer. Students will develop a framework for understanding the audience by looking at the intersection of a wide variety of factors that shape the media environment. The students will then project current trends to anticipate where the audience will be in the next five years. Crosslisted as BRDM. (Fee:\$10)

JOUR-3900 Practicum in Journalism-Fa, Sp

1 hour

Development of news stories for transmission to print, broadcasting and online media outlets within the University (Cedars, In the Loop, Resound Radio, Cedars Online) either individually or as a member of a team under the supervision of a faculty mentor. The practicum is organized in a news agency format with a rotating editorial board. Prerequisites: JOUR-3310 Advanced Newswriting and Reporting for Broadcasting; JOUR-3320 Advanced Newswriting and Reporting for Print.

JOUR-4350 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. (Fee: \$50)

2 hours

JOUR-4420 Feature Writing-Sp 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 course. Prerequisite: JOUR-3320 Advanced Newswriting and Reporting for Print. (Fee: \$50)

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-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-3500 Public Relations Principles and Writing; or by permission of instructor.

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

This course focuses on the techniques and aesthetics of reporting the news as a photojournalist. It emphasizes recognition, development and creation of news photographs and the skills of the photo editor. As part of this course, students will gain experience in shooting, developing, printing, and editing the images for a variety of news media. The course will emphasize how public relations and journalism professionals can use photographs for publication in traditional media, websites, company brochures, and digital slide-show presentations. Prerequisites: JOUR-3420 Editing and Design, or by permission of instructor. (Fee: \$50)

JOUR-4620 Investigative Reporting-Fa 3 hours

This course 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. (odd years) (Fee: \$50)

JOUR-4650 Designing Solutions for New Audiences-Sp

Because of the ongoing changes in the communication system, media companies and businesses are in constant reinvention of the ways in which they meet the needs of their audiences by innovations in programming, products and services. In this course students will be presented with a current problem in the use of new and emerging media to connect a client with its audience. Teams will then design a solution to meet the needs of both client and audience. Crosslisted with BRDM. *Prerequisite: JOUR/BRDM-3650 Networked Audience*.

JOUR-4810 Special Topics in Journalism-Fa 3 hours

Available to advanced students who desire in-depth study of special areas of journalism. Topics of current interest in the field of journalism will be offered to cover in-depth areas of specialization. Topics may include photojournalism, sports journalism, international news, news and religion, news media management, magazine, editing, opinion writing, and business and financial reporting. Prequisities: JOUR-3310 Advanced Newswriting and Reporting for Broadcasting; JOUR-3320 Advanced Newswriting and Reporting for Print; or permission of instructor. (even years) (Fee: \$50)

JOUR-4820 Special Topics in Public Relations-Sp 3 hours

Available to advanced students who desire intense study of special areas of public relations. Topics of current interest in the field of public relations will be offered to cover in-depth areas of specialization. Topics may include crisis communication, agency management, event planning, and international public relations. *Prerequisites: JOUR-3550 Advanced Public Relations Writing; or permission of instructor.* (even years)

JOUR-4950 Internship—Fa, Sp, Su 3–12 hour

Students are placed with professional organizations to apply their journalism training and gain experience in actual career situations. This should be discussed with an advisor one semester prior to the internship experience. Internship agreements must be signed by the student, the job supervisor, and the faculty mentor prior to the initiation of the internship. Prerequisite: for print major, JOUR-3420 Editing and Design; for broadcasting major, JOUR-3350 Television News Production; for public relations major, JOUR-3550 Advanced Public Relations Writing.

Professional Writing and Information Design (PWID) PWID-2130 Introduction to Professional Writing—Fa 3 hours

Students will study the technical communication profession.
They will learn the skills needed to succeed in the field,
professional approaches to solving problems in the field, and
potential professional opportunities in technical communication.

PWID-3000

3 hours

Production Tools and Document Design-Fa

Students will learn to teach themselves technology to prepare for learning new technology as it evolves in industry. Students will also learn document design principles to help them create visually stimulating, well-organized documents.

PWID-3010 Style and Mechanics for Writers-Fa, Sp, Su 3 hours

Students will learn to apply reliable principles to make writing clear, concise, coherent, and cohesive. Crosslisted with ENG 3010 Style and Mechanics for Writers. *Prerequisite: ENG-1400 Composition.*

PWID-3011 Legal and Research Writing-Fa 1 hour

Students will learn to apply reliable principles to make their writing clear, concise, coherent, and cohesive. In addition, they will learn to write persuasive documents that are required of professionals in the fields of law and public administration. Prerequisite: ENG-1400 Composition. Corequisite: PWID-3010 Style and Mechanics for Writers

PWID-3020 Professional Portfolio Development I-Fa 1 hour

Students will develop a professional portfolio and learn to use it effectively as a tool to obtain an internship.

PWID-3090 Marketing Communication–Fa

3 hours

3 hours

Students will learn to create marketing materials for the technical industry, from design to completion. *Prerequisites: PWID-3010 Style and Mechanics for Writers; PWID-3100 Designing Visual Communication.*

PWID-3100 Designing Visual Communication—Fa 3 hours

Students will learn to integrate visual design concepts to enhance communication in various documents and media. Topics will focus on increasing usability of communication products by targeted audiences. Corequisite: PWID-2000 Production Tools for Technical Communication.

PWID-3170 2 hours

The Professional Writer in a Corporate Culture—Sp

Students will discuss issues beyond intellectual ability and technical know-how that are crucial to a successful career. They will discover guidelines to assist them in improving their emotional intelligence capabilities.

PWID-3180 Visual Rhetoric-Fa

3 hours

Students will learn to understand the rhetoric of visual language and to adapt visual language to specific audiences, purposes, and contexts — just as they do written texts. As a result, they should be able to respond flexibly to design problems in all professional documents.

PWID-3210 Professional Editing-Sp 3 hours

Students will learn both copyediting and comprehensive editing skills. These skills include editing for grammar, punctuation, syntax, sentence structure, content development, and visual design. Students will learn to edit paper and electronic copy and will also explore editing in both publishing houses and corporate environments.

PWID-3250 Documentation Design-Sp

3 hours

Students will learn to plan, design, and create user documentation through systematic user analysis, task identification, effective writing, and effective visual design.

PWID-4010 Report Writing-Sp

3 hours

Students will learn to design and write effective technical reports and presentations that purposefully convey clear, concise, and accurate information to a targeted audience while using an appropriate level of technicality and supporting data or information.

PWID-4020 Professional Portfolio Development II-Fa 1 hou

Students will maintain a professional portfolio and learn to use it effectively to obtain employment after graduation. (Fee: \$25)

PWID-4050 Content Strategy and Development-Fa 3 hours

Students will learn how to design and manage information on the World Wide Web. The class addresses issues in usability, information architecture, and content strategy. Students will learn design principles and writing issues specific to the digital medium.

PWID-4090 User Experience for the Web–Sp

Students will learn to conduct formative and summative user research that will help them make critical decisions about content, structure, and layout of websites. They will study principles of usability, user experience, and information architecture in order to gain a comprehensive view of how to arrange, structure, and write content for websites.

PWID-4130 Instructional Design I-Fa

3 hours

Teaches technical communicators how to employ technology and learning theory in developing adult training courses.

PWID-4140 Instructional Design II-Sp

3 hours

This course provides students with the opportunity to delve deeper into the art and science of instructional design by focusing on educational technology in general and e-learning tools, techniques, and practices specifically in use in today's corporate environment. The course also investigates the topics of knowledge management, performance support and human capital management in order to give students a well-rounded introduction to the contemporary practice of non-traditional instructional design. *Prerequisites: PWID-4130 Instructional Design I or permission of instructor.*

PWID-4160 Professional Writing Internship—Su 3 hours

Students will participate in a work-study program approved and administered by the department in which advanced Professional Writing and Information Design students receive a variety of job-related experiences in a communication environment. *Prerequisite:* permission of instructor.

PWID-4170 Special Topics-Sp

3 hou

Students will study a selected topic(s) at the 4000-level. The flexibility of this course allows the faculty to meet the everchanging nature of technical communication. Possible topics include project management, professional presentations, research methods, ethics in PWID, or other topics presented by faculty or requested by students. *Prerequisites: PWID-2130 Introduction to Professional Writing; PWID-3010 Style and Mechanics for Writers* Capstone course.

PWID-4230 1–3 hours

Independent Study in Technical and Professional Communication–Fa, Sp, Su

Independent study for junior and senior-level PWID majors with special interests and demonstrated ability.

School of Education Course Descriptions

Early Childhood Education (EDEC)

EDEC-2100

2 hours

Art and Music for Early Childhood-Fa, Sp

An overview of the use of art and music 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 and music at the system, school, classroom, and individual levels. *Prerequisite: EDUC-1000 The Education Profession*. (Fee: \$20)

EDEC-2300 Phonics and the Reading Process-Fa, Sp 4 hours

The study of phonics and the place of phonics in the overall reading program. The course addresses multisensory strategies for reading, spelling, and writing instruction. It provides the scientific definition of dyslexia, its common characteristics standardized by the IDA, and the most effective research-based methodologies to address the instructional needs of individuals with dyslexia. Special emphasis on literacy and reading readiness. *Prerequisite: EDUC-1000 The Education Profession.*

EDEC-3500 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

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 Kindergarten Field Experience—Fa, Sp 1 hour

An observation and participation experience in which teacher candidates spend 12–15 full consecutive days focusing on classroom routines and instruction in a kindergarten or other preschool classroom. Designed to give a practical field-based aspect to all of the courses in the Early Childhood Methods I block. Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the Early Childhood Methods I block. (Fee: \$45)

EDEC-3950 Early Childhood Field Experience 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 3 hours

Teaching Mathematics: Early Childhood-Fa, Sp

An introduction to the objectives, skills, instructional strategies, teaching aids, and resource materials for teaching mathematics to the young child, based on the Ohio Model and NCTM Standards. An associated clinical experience provides theory-driven application. Prerequisite: successful completion of the Early Childhood Methods I block. Corequisite: other courses in the Early Childhood Methods II block.

EDEC-4200 3 hours

Teaching Science: Early Childhood-Fa, Sp

An examination of science curricula for the young child with particular emphasis on the Ohio Model and the National Science Standards. Instructional methodologies that emphasize an inquiry approach will be modeled and practiced with attention given to a hands-on approach to instruction. *Prerequisite: successful completion of the Early Childhood Methods I block. Corequisite: other courses in the Early Childhood Methods II block.* (Fee: \$15)

EDEC-4300 3 hours EDMC-3550 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, and the Ohio Model of Values Added Assessment. Instructional methodologies that emphasize the teaching of thinking, student interaction, and the use of instructional technologies will be modeled and practiced. Application of skills in the field as required. Prerequisite: successful completion of the Early Childhood Methods I block. Corequisite: other courses in the Early Childhood Methods II block.

EDEC-4450 3 hours

Early Childhood Field Experience II-Fa, Sp

Teacher candidates spend 20–25 days in an early childhood classroom, including 17–22 days teaching mathematics, social studies, and science. This field experience provides theory-driven application to instruction with an emphasis on reflective teaching and collegial teamwork. Teacher candidates are formally supervised and evaluated by University supervisors. *Prerequisite: successful completion of the Early Childhood Methods I block.* Corequisite: other courses in the Early Childhood Methods II block. (Fee: \$105)

EDEC-4880 1–3 hours

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. *Prerequisites: faculty advisor and instructor's permission*

EDEC-4900 12 hours

Student Teaching and Seminar: Early Childhood-Fa, Sp

A teaching experience in an early childhood setting under the supervision of the mentor teacher and a university supervisor. Required seminars encourage reflection on the teaching experience, as well as discussion of issues of importance to educators. *Prerequisite: successful completion of the Early Childhood Methods II block.* (Fee: \$550)

Middle Childhood Education (EDMC)

EDMC-2800

2 hours

Developmental Issues in Young Adolescents-Su

A study of the physiological, social, emotional, cognitive, and spiritual issues in human development endemic to the transition from preadolescence to adolescence. Emphasis on development research as it applies to the development of educational objectives, learning environments, and teacher characteristics conducive to the needs of younger adolescents

EDMC-3500 4 hours

Principles of Teaching Middle School-Sp

Teacher candidates learn to develop instruction based on observable learning objectives aligned with curriculum guides. Emphasis will be given to instructional models most appropriate for middle school students, including use of instructional technology. The course examines the developmental periods of later childhood and early adolescence from a psychological and sociological perspective and how school programs can be designed and implemented to deal with the unique aspects of these developmental periods. This course includes the application of grade-appropriate principles of assessment (including value-added). Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the M.C. Methods I block. (Fee:\$20)

Curriculum and Instruction for Grades 4 and 5-Su

An examination of the curricula of grades 4–5 and instructional strategies that emphasize content mastery and the development of critical inquiry. Particular emphasis placed on the Ohio Academic Content Standards for grades 4–5 in language arts, mathematics, science, and social studies. Prerequisite: admission to Early Childhood Education Endorsement program. Corequisite: enrollment with EDMC-2800 Development Issues in Young Adolescents and EDMC-3970 Middle school clinical (Grades

EDMC-3600 3 hours

Phonics and the Structure of Language-Sp

An introduction to the rationale, skills, instructional and assessment strategies, teaching aids, resource materials, and appropriate technologies for the teaching of phonics. Emphasis given to the source, structure, function, and history of spoken language. Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the M.C. Methods I block.

EDMC-3700 4 hours

Teaching Reading Through Middle School Literature-Sp

A survey of the early history, major types, and modern trends of literature for children in grades 4–9. The social and personal value of literature is studied along with methods for using trade books to support reading instruction in an integrated reading/ writing/ language arts program. *Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the M.C. Methods I block.*

EDMC-3800 3 hours

Writing Process and Language Arts Methods for Middle School-Sp

A study of the curriculum, methods, and resources for assessing and teaching of the language arts at the middle school level. Emphasis will be on an integrated reading/writing/language arts program and its importance across the curriculum. Prerequisite: admission to the Teacher Education Program.

Corequisite: other courses in the M.C. Methods II block. (Fee:\$55)

EDMC-3950

2 hours

Middle School Field Experience I: Teaching Reading-Sp

This experience provides for implementation of the objectives, skills, and strategies of instruction relative to middle grade reading instruction in a field-based setting. Teacher candidates are formally supervised and evaluated by cooperating teachers and university supervisors using Praxis/Pathwise criteria. *Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the M.C. Methods I block.* (Fee: \$115)

EDMC-3970 Middle School Clinical (Grades 4-5)-Su 2 hours

An observation and participation experience in grades 4 or 5. Clinical experience provides for the implementation of the objectives, skills, and strategies of grad 4–5 instruction and classroom management under the supervision of the experienced cooperating teacher and university supervisor. *Prerequisite:* admission to Early Childhood Education Endorsement program. Corequisites: enrollment with EDMC-2800 Development Issues in Young Adolescents and EDMC-3550 Curriculum and Instruction for Grades 4–5.

EDMC-3990 1–3 hours Independent Study in Middle Childhood Education–Fa, Sp, Su

An investigation of contemporary topics in middle childhood education through reading, writing, or creative projects.

EDMC-4000 Reading and Writing in the Disciplines: Middle Childhood–Fa

An introduction to the range of strategies and programs for teaching the reading process, including the nature of the reading process, assessment techniques, and instructional strategies to increase comprehension. The use of trade books and informational books in the content areas across the disciplines taught in the middle childhood grades is emphasized. *Prerequisite: successful completion of the M.C. Methods I block. Corequisite: other courses in the M.C. Methods II block.*

EDMC-4050 2 hours Responsive Schools for Middle Childhood–Fa

An examination of the developmental periods of later childhood and early adolescence from a psychological and sociological perspective. The course will also examine how school programs can be designed and implemented to deal with the unique aspects of these developmental periods. *Prerequisite: admission into the TEP courses in the M.C. Methods I block.*

EDMC-4100 3 hours

Teaching Mathematics: Middle Childhood-Fa

An introduction to the objectives, skills, and instructional strategies for teaching middle school mathematics, based on the Ohio Model and NCTM Standards. An associated clinical experience provides opportunity for theory-driven application of knowledge and skills. *Prerequisite: successful completion of the M.C. Methods I block. Corequisite: other courses in the M.C. Methods II block.*

EDMC-4125 3 hours

Topics in Middle School Mathematics-Fa

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-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: \$95)

EDMC-4440 Middle Childhood Field Experience II-Fa 2 hours

This clinical experience allows the teacher candidate to apply the theories, principles, and techniques provided in the associated methods courses. *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 12 hours

Student Teaching and Seminar: Middle Childhood-Fa, Sp

A teaching experience in a middle childhood setting under the supervision of the mentor teacher and the University supervisor. Required seminars encourage reflection on the teaching experience as well as discussion of issues of importance to educators. *Prerequisite: successful completion of the M.C. Methods II block.* (Fee: \$550)

Adolescent / Young Adult Education (EDSE)

EDSE-3000

3 hours

4 hours

Principles of Teaching: Adolescent and Young Adult Learners—Fa

Teacher candidates learn to develop student-centered instruction based on observable learning outcomes aligned with curriculum guides, with emphasis on instructional models most appropriate for adolescent to young adult (7–12th grade) students implementing the use of 21st century skills and instructional technology. The course examines, analyzes, and utilizes a variety of teaching strategies, assessments, and classroom management to facilitate differentiated student-centered instruction for all students. Includes an in-school experience. *Prerequisite:* admission to the Teacher Education Program as an AYA or MASPN candidate. (Fee:\$30)

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. Corequisite: other courses in the Adolescent and Young Adult Principles of Teaching block or permission of department Chair. (Fee: \$30)

EDSE-3900 Music Education Field Experience-Fa, Sp 2 hours

This supervised experience in a K–12 school prepares the teacher candidate for the student teaching experience by providing an opportunity to practice teaching methods. Candidates will be evaluated and must show potential to be successful in student teaching to receive credit. *Prerequisites: Admission to the Teacher Education Program and completion of or concurrent registration in MUED-3710 Music for Early Childhood; and/or MUED-3720 Music for Adolescent/Young Adults.* (Fee: \$90)

EDSE-3990

1–3 hours

Independent Study in Adolescent and Young Adult Education $-\text{Fa}, \, \text{Sp}, \, \text{Su}$

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 course is for Multi-Age Spanish and Adolescent and Young Adult Teacher Education Program majors. This course will be taught in online format. 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.

EDSE-4100 5 hours Principles of Teaching: Adolescent and Young Adult-Fa

An introduction to the objectives, skills, and instructional strategies needed for the teaching of adolescent and young adult students. This course will include instruction in Value Added assessment. An associated field experience gives students an opportunity to apply the knowledge and skills learned in the course, which will include an evaluation of each candidate's ability to use Value Added assessment. *Prerequisite: admission to the Teacher Education Program. Corequisites: other courses in the Adolescent and Young Adult Principles of Teaching block.*

EDSE-4450 2 hours

Adolescent/Young Adult Field Experience-Fa

An opportunity for the implementation of the objectives, skills, and instructional strategies in a setting appropriate for each discipline area. Teacher candidates teach two—three periods a day for five weeks. Prerequisite: admission to the Teacher Education Program. Corequisites: other courses in the Adolescent and Young Adult Principles of Teaching block. (Fee: \$30)

EDSE-4880 1–3 hours

Topics in Adolescent and Young Adult Education-Fa, Sp, Su

Selected topics in adolescent and young adult education that will complement or extend existing courses or expose candidates to topics not taught in other courses; may be proposed by an EDSE faculty or student. *Prerequisite: faculty advisor or instructor's permission.*

EDSE-4900 12 hours

Student Teaching and Seminar: Adolescent / Young Adult—Fa, Sp

A teaching experience in an adolescent/young adult setting under the supervision of the mentor teacher and the University supervisor. Required seminars encourage reflection on the teaching experience, as well as discussion of issues of importance to educators. (Fee: \$550)

Special Education (EDSP)

EDSP-2000

1 hour

1 hour

Teaching Children with Exceptionalities-Fa, Sp

An exploration of the implications of federal laws with an emphasis on the definitions, characteristics, and strategies for intervention in inclusive settings. The course includes an introduction to the use of assistive technology. *Prerequisite: EDUC-1000 The Education Profession. Corequisites: other courses in the Introduction to Teaching block.*

EDSP-2050

Field Experience: Exceptional Learning Needs-Fa, Sp

A field-based experience in special education in which the teacher candidate observes and participates with classroom personnel in assisting students with accentuated learning 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-2100 Exceptionalities and Behavior-Fa, Sp 2 hours

Reviews the historical sequence leading to the mandates in special education. Explores implications of federal law with an emphasis on the definitions and characteristics of exceptionalities and various philosophies regarding the education of students with exceptional learning needs. Strategies of inclusion are discussed. Includes an introduction to nondiscriminatory evaluation and functional assessment of individuals with exceptionalities and the use of assistive technologies for enabling instruction. The course will present a rational and pragmatic approach to general classroom management. Throughout the course, emphasis will be given to the Positive Behavior and Intervention Support (PBIS) framework, establishing rules, preventing behavior problems, and teaching social skills. Students will complete a minimum of 15 hours in a field experience with persons with an exceptional learning need.

EDSP-2400 2 hours

Language Development and Communication Disorders—Sp
An introduction to speech and language development for
teachers. The course incorporates a range of instructional
practices, technologies, and curricular materials to address the
communication needs of students with disabilities and/or differing
cultural and linguistic backgrounds.

EDSP-2500 1 hou

Survey of Intellectual and Developmental Disabilities-Fa, Sp

Survey of the multidisciplinary perspectives, identification, early influences, causation, levels of support, and practices related to the education of individuals with intellectual and developmental disabilities in early childhood. *Prequisites: EDSP-2100 Exceptionalities and Behavior; may be taken concurrently with EDSP-2100 Exceptionalities and Behavior with permission of instructor.*

EDSP-2700 2 hours

Teaching Children with Mild to Moderate Disabilities-Fa

An overview of mild to moderate disabilities with a focus on instructional strategies and accommodations for students in inclusive settings. *Prerequisite: TEP Acceptance, Early Childhood Methods I.*

EDSP-3100 3 hours

Diagnostics and Intervention in Reading-Fa, Sp

An introduction to the use of formal and informal assessment techniques for identification and remediation of reading difficulties. Teacher candidates learn practical instructional strategies for teaching students with reading problems and apply the techniques by working with elementary students in a school setting. Prerequisite: EDEC-2300 Phonics and the Reading Process. For Early Childhood majors. Corequisite: other courses in the Methods I block. (Fee: \$20)

EDSP-3150 3 hours Intervention and Diagnosis in Reading for

Special Educators—Sp

Study and implementation of individual testing and teaching strategies for skill development in reading, analysis of programs and materials, and development of individualized plans for remediation of specific skill deficits. *Prerequisites: the Introduction to Teaching block; EDEC-2300 Phonics and the Reading Process. For Special Education majors. Corequisite: other courses in the Methods I block* (Fee: \$20)

EDSP-3500 Special Education Law-Fa 1 hour

An overview of special education law with an emphasis on the history of the law and children with disabilities and understanding the implementation and accountability mechanisms of inclusive education. Prerequisites: Introduction to Education block, Corequisites: Introduction block may be taken during the same summer.

EDSP-3950 3 hours

 $\textbf{Special Education Field Experience: Early Childhood} - Fa, \, Sp$

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-4100 Adaptive Curriculum and Instruction-Fa 2 hours

An introduction to the curriculum, intervention strategies, instructional materials, and educational technology used with students with mild-moderate special educational needs. Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the Special Education block.

EDSP-4125 1 hour

Middle School Mathematics Topics for Special Educators—Fa

A course with an investigative approach to topics such as logic, history of mathematics from underrepresented cultures, and teaching mathematics to diverse cultures. Mathematical modeling, formulating, and solving problems for both mathematical and everyday situations are included. Real-world connections provide opportunities for exploration and communication by written, oral, and technological presentations. *Prerequisite: EDUC-2800 Principles of Mathematics II.*

EDSP-4150 Career and Occupational Training-Fa 2 hours

A look at the role of occupational training in the special education curriculum, including the techniques used in developing occupational interests and abilities at various age levels. Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the Special Education block.

EDSP-4250 2 hours Communication, Collaboration, and Inclusion—Fa, Sp

A presentation of the techniques of collaboration and consultation needed to enhance the teacher candidate's communication with individuals with special needs, parents, educational team members, and other professionals. Also includes strategies for adapting and modifying instruction for students with special needs and an introduction to assistive technology. Prerequisite: admission to the Teacher Education Program and completion of Methods I.

EDSP-4300 2 hours

Behavioral and Instructional Management-Fa

A study of behavior management concepts and techniques for teachers of special education. *Prerequisite: open only to degree-seeking students*.

EDSP-4400 Assessment in Special Education-Fa 3 hours

Study in the administration and interpretation of formal and informal educational assessment instruments to identify and place students with mild–moderate needs in special education and the development of appropriate education goals and objectives. Prerequisite: admission to the Teacher Education Program. Corequisites: other courses in the Special Education block.

EDSP-4450

3 hours

Special Education Field Experience: Middle Childhood-Fa, Sp

An opportunity to implement the objectives, skills, and instructional strategies for teaching mathematics, science, and social studies to students with mild to moderate needs at the middle childhood level. 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 Field Experience: Adolescent and Young Adult-Fa

An opportunity to use the skills learned developing and implementing individualized educational plans and behavior intervention strategies for adolescent and young adult students with mild to moderate special educational needs. *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.*

EDSP-4900 12 hours Student Teaching and Seminar: Special Education

A teaching experience for special education only majors with students who have mild-moderate special educational needs under the supervision of the cooperating teacher and the University supervisor. Seminars encourage reflection on the teaching experience as well as discussion of issues of importance to educators. *Prerequisite: successful completion of the Early Childhood Methods II and Special Education blocks.* (Fee: \$550)

Education (EDUC)

EDUC-1000 The Education Profession-Fa,Sp

2 hours

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. *Prerequisite: declared major in an Ohio licensure-seeking program.* (Fee: \$129) **EDUC-1050 O hours**

Preliminary Student Involvement-Fa, Sp, Su

Teacher candidates arrange a field experience for five consecutive full days in a public or private P-12 school setting where they observe and participate in classroom activities. A follow-up report is required. *Prerequisite: EDUC-1000 The Education Profession or permission of instructor.*

EDUC-1800 Principles of Mathematics I–Fa, Sp 3 hours

The course develops basic proficiencies needed for teaching Ohio's Competency Based Comprehensive Programs for mathematics (NCTM Standards). This course may be waived with an ACT Math subscore of 23 or higher or SAT Quantitative subscore of 521 or higher. *Prerequisite: EDUC-1000 The Education Profession*.

EDUC-2050 Teaching Diverse Learners-Fa, Sp 2 hours

A survey of issues and strategies needed to teach diverse students. The course seeks to develop cultural competencies that accompany various aspects of multicultural education related to racial, ethnic, linguistic, and cultural diversity. Strategies for the practice of culturally responsive teaching will be introduced. As a course assignment, students will log at least 15 hours of interaction with diverse students and complete a reflective journal. (Fee: \$65)

EDUC-2100 e-Learning for Educators-Fa, Sp 3 hours

Teacher candidates learn to use a wide range of new and emerging electronic learning technologies (e-Learning) for developing and enhancing student-centered classroom and online/distance instruction. The course requires the completion of various projects and assignments that demonstrate their proficiency in addressing the multifaceted demands on a 21st century K–12 educator in an increasingly global, changing, and complex world through blended and online/distance learning contexts. (Fee: \$25)

EDUC-2200 Multicultural Field Experience—Fa

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-2300 Assessment and Differentiation-Fa, Sp 2 hours

A study of assessment and differentiated instruction concepts and procedures in a K–12 school setting including the Ohio Model of Value Added Assessment. *Prerequisites: EDSP-2100 Exceptionalities and Behavior, or enrollment in the Bible teacher education minor.*

EDUC-2400 Children's Literature—Fa, Sp 3 hours

A survey of the early history, major types, and modern trends of literature for children in preschool through grade 5. The social and personal value of literature is studied along with methods for using trade books for reading instruction. *Prerequisite: EDUC-1000 The Education Profession*.

EDUC-2500 Educational Psychology–Fa, Sp 3 hours

An introduction to the principles of child and adolescent development, learning theories, and the principles and processes that affect teaching and learning. The course focuses on learning theory and the skills necessary to create and maintain an optimal learning environment in a diversity of settings. *Prerequisite: 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 is based on an NCTM standards-based framework and develops mathematical content proficiency required for teaching mathematics in grades PK–9. In addition, it develops new mathematical topics that are connected to real-world situations and other disciplines. *Prerequisite: EDUC-1000 The Education Profession; EDUC-1800 Principles of Mathematics I (or an ACT Math subscore of 23 or higher or SAT Quantitative subscore of 521 or higher).*

EDUC-3100 3 hours

Philosophical Foundations of Education-Fa, Sp

A study of the institutional development of schooling in the United States. Examines the biblical foundations for education and engages in a critical analysis of foundational educational philosophies and their impact on Christian approaches to education. Examines current and historical philosophical, social, and economic issues and how these affect the principles and practices of American schooling.

EDUC-3200 Faith and Learning Alignment-Fa, Sp 1 hour

An introduction into the principles and practices of biblical integration in the K-12 school settings. Course examines the theological and theoretical foundations of biblical integration and prepares the teacher candidate to align curriculum and instructional techniques to their teaching/licensure area. Prerequisite: Admission to the Teacher Education Program. Corequisite: Enrollment in appropriate methods of teaching block for licensure area.

EDUC-3570 Supervised Field Experience 1–3 hours

A 30–90 clock hour supervised placement in an early, middle, and/or adolescent/young adult classroom. Designed to give a transfer teacher candidate, an early childhood education candidate seeking a Reading Endorsement, or a teacher candidate repeating other field experiences the necessary P-12 supervised experience needed to meet program requirements.

EDUC-3990 Independent Study in Education

1-3 hours

An investigation of contemporary topics in education through reading, writing, or creative projects. *Prerequisite: 15 semester hours in education.*

EDUC-4000 3 hours

Reading in the Content Area-Fa

1 hour

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 Health and Physical Education Teacher Education Program majors. This course will be taught in online format. Prerequisite: admission to the Teacher Education Program or senior status and permission of department Chair.

EDUC-4850 Internship in Applied Education 3–12 hours

Juniors and seniors who have been accepted into the Teacher Education Program may, with the approval of the School of Education Dean, engage in an internship that involves the meaningful use of knowledge gained in previous education courses and experiences. A school faculty member will assist with the internship, arrangements, and evaluation of the experience. The school Dean will approve the number of credit hours to be granted for the experience. *Prerequisite: permission of the School of Education Dean.* (Fee: \$25)

EDUC-4880 10 hours

Student Teaching (Nonlicensure) and Seminar-Sp

A teaching experience working with students in a range of age levels under the supervision of the cooperating teacher and University supervisor. Seminars encourage reflection on the teaching experience as well as discussion of issues of importance to educators. *Prerequisite: Completion of all TEP requirements except internship.* (Fee: 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 12 hours Student Teaching and Seminar: Multi-Age—Fa, Sp

A teaching experience working with students in a range of age levels under the supervision of the mentor teacher and the University supervisor. Seminars encourage reflection on the teaching experience as well as discussion of issues of importance to educators. Capstone for the Multi-Age Physical Education Major. (Fee: \$550)

EDUC-4910 Special Student Teaching 3–10 hours

Occasionally, unusual situations arise that entail special provisions (e.g., summer school student teaching for experienced teachers, repeated experiences, etc.). (Fee: \$100)

EDUC-4950 12 hours Student Teaching and Seminar in Special Education and Early Childhood–Fa, Sp

A full semester teaching experience with significant exposure in both special education and early childhood education settings. The student teacher will work under the supervision of cooperating teachers and University supervisors in each field. Seminars encourage reflection upon the teaching experience and discussion of issues of importance to educators. (Fee: \$640)

School of Engineering and Computer Science Course Descriptions

Computer Science (CS)

CS-1210 C++ Programming-Fa, Sp

2 hours

Introduction to computer programming, software engineering principles, structured program design and implementation, using the C++ programming language; students will become familiar with common commands for managing the file system and constructing programs in the Linux operating system. Two lecture hours and one one-hour laboratory per week. (Fee: \$50)

CS-1220 Object-Oriented Design Using C++—Fa, Sp 3 hours
Continuation of CS-1210 C++ programming to include pointers,
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 Linux and Windows environments.

Prerequisite: CS-1210 C++ Programming. (Fee: \$50) CS-2210 Data Structures Using Java-Fa, Sp 3

3 hours

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-3310 Operating Systems–Fa, Sp 3 ho

A state-of-the-art survey of operating system principles. Covers fundamental technology and contemporary design issues such as threads, real-time systems, multiprocessor scheduling, distributed systems, and security. Course content is developed through lectures, student research of the relevant literature, presentations, and programming projects using both C++ and Java. *Prerequisite: CS-1220 Object-Oriented Design Using C++*. (Fee: \$50)

CS-3320 Linux Systems Programming-Fa 3 hours

A detailed look at the Linux Operating System, including basic system administration and advanced operating system concepts. Students will gain proficiency in C programming and in the modification of the Linux kernel and drivers. Students will also gain an in-depth look at the security measures provided by the Security-Enhanced Kernel. *Prerequisites: CS-1220 Object-Oriented Design Using C++; CS-3310 Operating Systems.* (Fee: \$50)

CS-3350 Foundations of Computer Security-Sp 3 hours

Introduction to computer security, including basic concepts, security policy, access control, authentication and key control, and cryptography. Students will complete several programming assignments. *Prerequisites: CS-1220 Object-Oriented Design Using C++.* (Fee: \$50).

CS-3410 Algorithms-Fa

Introduction to classical algorithms that have broad application in solving computer science problems; topics include analysis of algorithms, advanced data structures, graph algorithms, numerical methods, and NP-completeness. *Prerequisite: CS-2210 Data Structures Using Java; MATH-2510 Discrete Math for Computer Science* (Fee: \$50)

CS-3510 Compiler Theory and Practice—Sp 3 hours

Introduction to the foundational technology of modern compilers, with emphasis on underlying theory and practical techniques for implementing a compiler by applying object-oriented and appropriate data structures. Design project typically developing a compiler is required. *Prerequisite: CS-3410 Algorithms.* (Fee: \$50)

CS-3610 Database Organization and Design–Sp 3

Introduction to the analysis, design, and implementation of relational databases and the Structured Query Language (SQL); topics include data modeling techniques, data model to logical schema conversion techniques, relational algebra, SQL, database file organizations, query evaluation, transaction management, and client-server application architectures. Design project required. Prerequisites: CS-2210 Data Structures Using Java. Corequisite: MATH-2510 Discrete Mathematics for Computer Science. (Fee: \$50)

CS-3920 Computer Science Internship—Fa, Sp 1–3 hours

An opportunity for a computer science student to work closely with an industrial advisor. Specific attention is given to solving a particular problem(s) in the industry or firm. A faculty advisor assists in supervising and approving the internship, including assessing the number of credit hours. A final report (approximately seven pages per credit hour) describing the experience, including the problem and solution, is required. Must be arranged with a faculty sponsor and work supervisor before starting. No more than one hour of CS-3920 can be used to fulfill program technical elective requirements. *Prerequisites: junior or senior computer science major status; faculty advisor permission.*

CS-3950 Topics in Computer Science–Fa, Sp, Su 1–3 hours

Selected topics in computer science at the 3000-level that will complement or extend existing 2000- and 3000-level courses or expose students to topics not taught in other courses. Topics may be proposed by the computer science faculty or students. *Prerequisite: permission of instructor.*

CS-3980 1–3 hours

Independent Study in Computer Science-Fa, Sp, Su

Opportunity to perform independent study or research in computer science and allied fields of application. A formal proposal for study must be approved by the faculty advisor before registering for this course. *Prerequisites: junior or senior computer science or engineering major status, and permission of instructor.*CS-3220 Web Applications—Sp

3 hours

Introduction to the design and implementation of web-based applications. Technologies such as HTML5, CSS3, Javascript, JQuery, PHP, Java Servlets, XML, and MySQL are explored. Multiple design projects required. *Prerequisite: CS-2210 Data Structures Using Java*. (Fee: \$50)

CS-4310 Cyber Defense-Sp

3 hours

This course covers the best practices of cyber defense, including wired and wireless network security fundamentals, the installation, configuration, and administration of intrusion detection and prevention systems and firewalls for both Windows and Linux environments, and operating system and web server hardening. *Prerequisites: CS-1220 Object-Oriented Design Using C++; CS-3310 CS-3310 Operating Systems.* (Fee: \$50)

CS-4330 SoftWare Security–Fa 3 hours

A detailed look at issues involved in providing secure software systems. Students will study principles and practices of software development that result in software that is robust and secure from attack. Students will learn techniques for analyzing software to determine whether it contains weaknesses that are vulnerable to exploitation. Students will also explore reverse engineering of software to understand the design of an existing software component to determine its security and whether it could contain malware. *Prerequisites: CS-3310 Operating Systems; CS3350 Foundations of Computer Security.* (Fee: \$50)

CS-4410 Parallel Computing—Fa

3 hours

Introduction to the exploitation of parallelism to solve computational intensive problems; emphasis is placed on both the message passing (using MPI) and the shared memory paradigms; projects are required using both paradigms. Crosslisted as CS and EGCP. Prerequisites: CS-3310 Operating Systems. Corequisite: CS-3410 Algorithms; permission of instructor. (Fee: \$50)

CS-4710 Computer Graphics-Fa

3 hours

Introduction to three-dimensional computer graphics and computer game content creation and programming. Topics include geometric modeling and common game engine capabilities; techniques for enhancing realism such as local lighting effects, texture, transparency, and physical modeling; and common computations in the rendering pipeline such as model transformations, clipping and culling, shading, rasterization and collision detection. Group design project required. *Prerequisite: MATH-2510 Discrete Math for Computer Science. Corequisite: CS-3410 Algorithms.* (odd years) (Fee: \$50)

CS-4810 Software Engineering I-Fa

3 hours

The capstone design experience for computer science majors. Introduction to software engineering principles focusing on requirement development, detailed design, project scheduling and management, quality assurance, and testing. Student teams meet regularly to develop a project management plan, a requirements document and a detailed design and begin to implement their project that will be completed in CS-4820. *Prerequisite: CS-3220 Web Applications; CS-3610 Database Organization and Design; CS-3410 Algorithms.* (Fee: \$50)

CS-4820 Software Engineering II-Sp

4 hours

Continuation of CS-4810 Software Engineering I. Student teams will complete the implementation, testing, and release of their capstone project, submit regular progress reports, prepare a final report, and make a formal project presentation. *Prerequisite: CS-4810 Software Engineering.* (Fee: \$50)

CS-4950 Advanced Topics in Computer Science 1–3 hours

Selected topics in computer science at the 4000-level that expand the depth of existing 3000- and 4000-level courses or that expose the students to advanced concepts not taught in other courses. *Prerequisite: permission of instructor.*

CS-4980 Independent Study in Computer Science 1-3 hours

Opportunity to perform independent study or research in computer science and allied fields of application. A formal proposal for study must be approved by the faculty advisor before registering for this course. *Prerequisites: junior or senior computer science or engineering major status, permission of instructor.*

Computer Engineering (EGCP)

EGCP-1010 Digital Logic Design-Fa, Sp

3 hours

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-2120 Microcontrollers-Fa

Introduction to the fundamentals of microcontrollers and embedded systems, including microcontroller architecture, assembly and C programming, peripheral interfacing, design and data communications. *Prerequisite: EGCP-1010 Digital Logic Design; CS-1210 C++ Programming.* (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-1010 Digital Logic Design; CS-1210 C++ Programming.*

EGCP-3920 Computer Engineering Internship 1–3 hours

An opportunity for a computer engineering student to work closely with an industrial advisor. Specific attention is given to solving a particular problem(s) in that industry or firm. A faculty advisor assists in supervising and approving the internship, including assessing the number of credit hours. A final report (approximately seven pages per credit hour) describing the experience, including the problem and solution, is required. Must be arranged with a faculty sponsor and work supervisor before starting and cannot be used to satisfy elective credit requirements. Prerequisites: junior or senior engineering major status; faculty advisor's permission.

EGCP-3950 Topics in Computer Engineering-Fa, Sp 1-3 hours

Selected topics in computer engineering at the 3000-level that will complement or extend existing 2000- and 3000-level courses or expose students to topics not taught in other courses; may be proposed by the engineering faculty or students. *Prerequisite: instructor's permission.*

EGCP-3980 1–3 hours

Independent Study in Computer Engineering

Opportunity to perform independent study or research in computer engineering and allied fields of application. A formal proposal for study must be approved by the faculty advisor before registering for this course. Up to three credit hours of engineering electives can be satisfied by an equivalent number of independent-study hours. Prerequisites: junior or senior engineering major status; faculty advisor's permission.

EGCP-3990 1–3 hours

Project Design in Computer Engineering

An elective course for students to get academic credit for extracurricular design work in computer engineering; project may be related to a design competition, ministry, industry, or personal interest. Cannot be used to satisfy engineering elective requirements. *Prerequisite: instructor's permission.*

EGCP-4210 Advanced Computer Architecture—Fa 3 hours

Advanced study of computer architecture with an emphasis on performance, performance metrics, benchmarks, integer and floating point concepts, data-path and control, super-scalar processing and pipelining, memory hierarchy, I/O and peripherals, vector, array and parallel processors, and multiprocessors.

*Prerequisites: EGCP-3210 Computer Architecture. (Fee: \$100)

*EGCP-4250 CMOS VLSI Design—Sp

3 hours

Introduction to CMOS VLSI design with emphasis on circuit analysis, modeling, mask layout, simulation, and design verification; both theoretical concepts and CAD tools are used together for circuit design and verification. Three lecture hours per week with integrated laboratory. *Prerequisite: EGEE-3210 Electronics I.*

EGCP-4310 Computer Networks-Fa 3 h

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; Corequisite: CS-3310 Operating Systems.* (Fee: \$50)

EGCP-4410 Parallel Computing-Fa

3 hours

Introduction to the exploitation of parallelism to solve computationally intensive problems; explores schemes for achieving parallelism, architectures required for parallel computing, performance analysis, and parallel algorithm design; uses common standards for message passing (e.g., MPI), local clusters and remote supercomputer systems. Crosslisted as CS and EGCP. Prerequisites: CS-3310 Operating Systems. Corequisite: CS-3410 Algorithms; permission of instructor. (Fee: \$50) (even years)

EGCP-4810 4 hours

Computer Engineering Senior Design I-Fa

Design and development of electronic products to meet specific requirements. Introduction to computer system design, power supply design, hardware-software co-design, software engineering, system performance trade-offs, electronic design tools, prototype methods, estimating and managing time and cost constraints, and project management. Student teams prepare a project proposal, design and prototype a microprocessor-based system or sub-system, use computerized design tools, submit weekly progress reports, and conduct design reviews. Three lecture hours and one two-hour laboratory per week. Prerequisite: EGEE-3210 Electronics I, CS-3410 Algorithms, CS-3310 Operating Systems, and Senior status in computer engineering Corequisite: EGCP-4210 Advanced Computer Architecture. (Fee: \$100) **EGCP-4820** 4 hours

Computer Engineering Senior Design II-Sp

Continuation of EGCP-4810 Computer Engineering Senior Design I. Student teams will complete their capstone project, submit weekly progress reports, prepare a formal final report, and make a formal design review presentation. Prerequisite: EGCP-4810 Computer Engineering Senior Design I. (Fee: \$100)

EGCP-4950 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

Introduction to basic circuit analysis using Ohm's law, Kirchoff's laws, independent and dependent sources, Thévenin and Norton equivalency and source transformations, transient responses in RC, RL, and RLC circuits, operational amplifiers, and introduction to polyphase AC circuits. Circuit applications for transducers such as resistance strain gages, piezoelectric load cells, piezoelectric accelerometers, and thermocouples are emphasized along with measurement uncertainty analysis and statistical methods. Circuits are designed, simulated, constructed, and tested in the laboratory. Three lecture hours and one two-hour laboratory per week. This course does not satisfy the EGEE-2010 Circuits requirement for the Electrical or Computer Engineering majors. Prerequisites: PHYS-2120 General Physics II; MATH-2740 Differential Equations. (Fee: \$100)

EGEE-2110 Engineering Analysis-Sp

3 hours

This course introduces students to mathematical tools used by electrical engineers. Topics include theory and engineering applications of complex variables, linear algebra, and probability and statistics as well as the numerical solution of basic differential equations. Students are introduced to the Matlab computing environment. Prerequisites: CS-1210 C++ Programming; MATH-1720 Calculus II. Coreguisites: MATH-2740 Differential Equations.

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. (even years)

EGEE-3210 Electronics I-Fa

Introduction to semiconductor electronic device theory and applications. Topics include ideal and nonideal operational amplifiers, diodes, field-effect transistors (FETs), and bipolarjunction transistors (BJTs). Two lecture hours and one two-hour laboratory or recitation per week. Prerequisite: EGEE-2010 Circuits. (Fee: \$100)

EGEE-3220 Electronics II-Sp

5 hours

Continuation of EGEE-3210 Electronics I to include differential amplifiers, frequency response of amplifier circuits, multi-stage amplifiers, power amplifiers, feedback circuits, power supplies, filters, digital logic families, and oscillators. Four lecture hours and one two-hour lab per week. Prerequisite: EGEE-3210 Electronics I. (Fee: \$100)

EGEE-3310 Electromagnetics-Sp

3 hours

Engineering applications of vector calculus, phasors, and Maxwell's equations to electrostatic, magnetostatic and time varying fields, transmission lines, Smith Chart, propagation of uniform plane waves, and single-stub matching. Laboratory exercises introduce field-plotting, transmission line concepts using wave guides, single stub-tuning, introduction to the network analyzer, polarization, and radiation fields. Two lecture hours and one two-hour laboratory or recitation period per week. Prerequisites: MATH-2710 Calculus III; EGEE-2010 Circuits. (Fee: \$100)

EGEE-3330 Communications Theory-Sp

Introduction to analog and digital communications theory. Topics for random processes are introduced to facilitate noise analysis in modulation techniques. Three lecture hours and one two-hour laboratory per week; design project required. Prerequisite: EGEE-3110 Linear Systems. (Fee: \$100)

Prerequisite: EGEE-3110 Linear Systems.

EGEE-3370

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.

EGEE-3510 Power Electronics-Sp

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

Independent Study in Electrical Engineering

Opportunity to perform independent research or study in electrical engineering and allied fields of application. A formal proposal for study must be approved by the faculty advisor before registering for this course. Up to three credit hours of engineering electives can be satisfied by an equivalent number of independent-study hours. Prerequisites: iunior or senior engineering major status and faculty advisor's permission. 1-3 hours

Project Design in Electrical Engineering-Fa, Sp

An elective course for students to get academic credit for extracurricular design work in computer engineering; project may be related to a design competition, ministry, industry, or personal interest. Cannot be used to satisfy engineering elective requirements. Prerequisite: instructor's permission.

EGEE-4110 Digital Signal Processing-Fa 2 hours

Introduction to digital signal processing with emphasis on FIR and IIR filter design, application of Z-transforms and Fourier Transforms, spectral analysis, realization and frequency response of discrete-time systems, and properties and design of FIR and IIR filters with infinite and finite word-length processors. Filter designs are implemented in Matlab. Design project required. Prerequisites: EGEE-3110 Linear Systems; CS-1210 C++ Programming.

EGEE-4120 Digital Image Processing-Sp

Introduction to digital image processing. Topics include linear filtering in the spatial and frequency domains, morphology, image segmentation, wavelets, image compression, and pattern recognition. Prerequisites: EGEE-3110 Linear Systems. (even vears)

EGEE-4310 RF Circut Design-Fa

3 hours

3 hours

3 hours

3 hours

Introduction to the characteristics of noise and nonlinearity in radio-frequency (RF) circuit, scattering parameters and two-port network model, impedance matching techniques, and the radio transmitter and receiver architecture. Topics of designing the circuit of low noise amplifier, mixers, oscillators, RF filters, and power amplifier will be covered. Student will learn to use the state-of-theart CAD tool and vector network analyzer. Prerequisites: EGEE-3220 Electronics II, EGEE-3330 Communications Theory. (Fee: \$100)

EGEE-4330 3 hours

Advanced Communications and Networks-Fa

Analysis of the performance of analog and digital communication systems and networks in the presence of noise, M-ary signals, signal space concepts, orthogonal signals, and introduction to communication networks. Prerequisite: EGEE-3330 Communications Theory. Corequisite: EGEE-3370 Probability and Random Processes for Engineers or instructor's permission.

EGEE-4410 Feedback Control Systems-Fa 4 hours

Introduction to the analysis and design of analog feedback control systems with emphasis on modeling, transfer functions, root locus, frequency response, Bodé plots, Nyquist Criterion, stability, compensator design for performance and robustness, PID, phase-lead, phase-lag, lead-lag, and performance indices. Three lecture hours and one two-hour laboratory or recitation per week. Design project required. Prerequisite: EGEE-3110 Linear Systems. (Fee: \$100)

EGEE-4450 Digital Control Systems-Sp

3 hours

Introduction to analysis and design of discrete-time sampleddata control systems, signal sampling, A/D and D/A conversion, quantization, application of Z-domain transfer function techniques, transient response, frequency response, stability and performance of computer controlled systems, digital compensation, and controller design. Design project required. Prerequisite: EGEE-4410 Feedback Control Systems. 3 hours

EGEE-4510 Power Systems-Sp

Principles of electrical power generation, transmission, and distribution, three-phase power circuits, power system analysis, load flow, symmetrical components, fault currents, system protection, and stability. Corequisite: EGEE-3310 Electromagnetics. (Fee: \$50) (even years)

EGEE-4610 Medical Imaging-Sp

3 hours

Introduction to the physics, phenomenology, and engineering aspects of major medical imaging modalities: photon radiation, radiography, computed tomography, ultrasound, and magnetic resonance imaging. Matlab will be used to process imagery. Prerequisite: EGEE-3110 Linear Systems. (odd years)

EGEE-4810 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 project management, reliability, probability and statistics with engineering applications, serial communication protocols, product cost and safety, electronic design tools, prototype methods, noise, and circuit-board layout. Student teams prepare a project proposal, design and prototype electronic systems using modern technologies and tools, and conduct design reviews both written and oral. Three lectures and one two-hour lab per week. Prerequisites: EGEE-3220 Electronics II; EGCP-2120 Microcontrollers; EGEE-3110 Linear Systems; senior status in electrical engineering. (Fee: \$100)

EGEE-4820

Electrical Engineering Senior Design II-Sp

Continuation of EGEE-4810 implementing the top-down design method. Students design, build, and test a working electronic product to meet specific requirements within budget. Engineering time, team management costs, and component costs are incorporated into the total cost and grade for the final product. Formal design reports and presentations required. Two three-hour laboratories per week. *Prerequisite: EGEE-4810 Electrical Engineering Senior Design I.* (Fee: \$100)

EGEE-4950 1–3 hours

Advanced Topics in Electrical Engineering-Sp

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

General Engineering (EGGN)

EGGN-1110 The Engineering Profession-Fa

1 hour

4 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

0 hours

Engineering freshmen on a school of engineering intercollegiate design competition may use this course to provide on their transcript a record of their participation throughout the year. The name of the competition will be designated.

EGGN-2960 Competition Project-Sp

0 hours

Engineering sophomores on a school of engineering intercollegiate design competition may use this course to provide on their transcript a record of their participation throughout the year. The name of the competition will be designated.

EGGN-3110 Professional Ethics—Sp 3 hours

Introduction to the theories of morality and philosophical issues of determining what is true and what is good. Applications are made to professional conduct, engineer-client relations, and product liability. Legal problems and the engineering code of ethics are discussed from a biblical perspective.

EGGN-3510 Systems Optimization—Fa 3 hours

The course covers the theory and procedures for optimizing multi-variable, nonlinear, constrained problems with application to system design and optimization. Topics include the formulation of the Karush-Kuhn-Tucker (KKT) optimality conditions, numerical algorithms for solving different classes of problems, linear programming, gradient algorithms, and special topics applicable to senior design projects. *Prerequisites: MATH-2710 Calculus III; MATH-2740 Differential Equations.*

EGGN-3610 Biomedical Engineering Systems-Sp 3 hours

Introduction to the field of biomedical engineering and the application of engineering to the field of medicine; fundamental aspects of measuring and modeling physiological systems, biomedical device design, tissue engineering, bioelectric phenomena, biosensors, physiological modeling, biomedical imaging, and biomaterials. Team taught by ME and EE professors. *Prerequisites: Engineering major with junior standing; GBIO-1000 Principles of Biology.* (even years)

EGGN-3710 2 hours

Biomedical Engineering Research-Fa, Sp, Su

Student will undertake an original research project under the direction of a departmental faculty mentor, approved mentor within a summer research program, or within an approved academic internship experience. Submission and approval of a research proposal must precede registration. *Prerequisites: major in engineering; minor in biomedical engineering; junior status; permission of advisor, and approval of research topic.* (Fee: \$150)

EGGN-3910 Co-op I 0 hours

First term for an engineering or computer science student to work in industry for one semester. A final report is required. Students completing a co-op work assignment and registered for this course are granted full-time student status. *Prerequisite: junior status in engineering or computer science and enrollment in the co-op program.* (Fee \$75).

EGGN-3911 Co-op IA

0 hours

First half of the first term for an engineering or computer science student to work in industry part-time for one semester. A final report is required. Students enrolled in part-time co-op must register for six or more credit hours to maintain full-time student status. *Prerequisite: junior status in engineering or computer science and enrollment in the co-op program.* (Fee \$40).

EGGN-3912 Co-op IB

0 hours

Second half of the first term for an engineering or computer science student to work in industry part time for one semester. A final report is required. Students enrolled in part-time co-op must register for six or more credit hours to maintain full-time student status. *Prerequisite: EGGN-3911 Co-op IA*. (Fee \$40).

EGGN-3920 Co-op II

0 hours

Second term for an engineering or computer science student to work in industry for one semester. A final report is required. *Prerequisite: EGGN-3910 Co-op I or EGGN-3912 Co-op IB.* (Fee \$75).

EGGN-3921 Co-op IIA 0 hours

First half of the second term for an engineering or computer science student to work in industry part time for one semester. A final report is required. Students enrolled in part-time co-op must register for six or more credit hours to maintain full-time student status *Prerequisite: EGGN-3910 Co-op I or EGGN-3912 Co-op IB.* (Fee \$40).

EGGN-3922 Co-op IIB

0 hou

Second half of the second term for an engineering or computer science student to work in industry part time for one semester. A final report is required. Students enrolled in part-time co-op must register for six or more credit hours to maintain full-time student status. *Prerequisite: EGGN-3921 Co-op IIA. (Fee: \$40).*

EGGN-3930 Co-op III

0 hours

Third term for an engineering or computer science student to work in industry for one semester. A final report is required. Prerequisite: EGGN-3920 Co-op II or EGGN-3922 Co-op IIB. (Fee: \$75). May be repeated.

EGGN-3931 Co-op IIIA

0 hours

First half of the third term for an engineering or computer science student to work in industry part time for one semester. A final report is required. Students enrolled in part-time co-op must register for six or more credit hours to maintain full-time student status. *Prerequisite: EGGN-3920 Co-op II or EGGN-3922 Co-op IIB*. (Fee \$40). May be repeated.

EGGN-3932 Co-op IIIB

0 hours

Second half of the third term for an engineering or computer science student to work in industry part time for one semester. A final report is required. Students enrolled in part-time co-op must register for six or more credit hours to maintain full-time student status. *Prerequisite: EGGN-3931 Co-op IIIA.* (Fee \$40). May be repeated.

EGGN-3960 Competition Project-Sp

0 hours

Engineering juniors on a school of engineering intercollegiate design competition may use this course to provide on their transcript a record of their participation throughout the year. The name of the competition will be designated.

EGGN-4010 Senior Seminar-Fa

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 school of engineering intercollegiate design competition may use this course to provide on their transcript a record of their participation throughout the year. The name of the competition will be designated.

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-2410 Properties of Engineering Materials—Fa 4 hours

Introduction to the properties of metallic, ceramic, polymeric, and composite materials; plastic deformation, strengthening, fracture, fatigue, corrosion, diffusion, equilibrium and nonequilibrium processes, phase diagrams, electrical and magnetic properties, and application to materials selection. Three lecture hours and one two-hour laboratory per week. Prerequisite: EGME-2530 Statics and Mechanics of Materials. (Fee: \$100) **EGME-2430** 3 hours

Contemporary Manufacturing Processes-Fa

Contemporary processing techniques of materials including machining, casting, forming, hot and cold working; conventional, NC, and CNC machining as well as 3D printing; inspection techniques, quality control, and production methods. Prerequisites: EGME-2410 Properties of Engineering Materials. (Fee: \$55) EGME-2510 Statics-Fa

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-2570 Statics and Dynamics-Fa

Free-body diagrams, vectors, resultant forces, two- and threeforce members, friction, simple machines, center of gravity, and moments of inertia. Kinematics and equations of motion of a particle for rectilinear and cervilinear motion. Planar kinematics of rigid bodies. Kinetics for planar motion of rigid bodies, including equations of motion and principles of energy and momentum. Prerequisites: EGME-1810 Engineering Graphics; MATH-1720 Calculus II; PHYS-2110 General Physics I. (Fee: \$10)

EGME-2630 Dynamics-Sp

3 hours

Introduction to kinematic and kinetic analysis of particles, systems of particles, and rigid bodies; position, velocity, acceleration, non-rotating and rotating frames of reference, Newton's laws, work, energy, impulse, momentum, conservative and non-conservative systems, and vibration of single-degree-offreedom systems. Design project required. Prerequisite: EGME-2510 Statics or EGME-2530 Statics and Mechanics of Materials. Pre- or Corequisite: MATH-2740 Differential Equations. (Fee: \$10) **EGME-3010**

Mechanical Engineering Laboratory I-Fa

2 hours

Experiments using the wind tunnel, engine test cell, testing machines in the mechanics laboratory, vibrations laboratory, fluids laboratory, refrigeration laboratory, and heat transfer laboratory are conducted. Students measure mechanical phenomena such as acceleration, force, pressure, temperature, strain, fluid flow, viscosity, and heat transfer using transducers, instrumentation, and PC-based data acquisition. Students design some of the experiments. Two 2-hour laboratories per week. Prerequisites: EGME-2630 Dynamics; EGEE-2050 Circuits and Instrumentation. Corequisites: EGME-3110 Thermodynamics; EGME-3210 Fluid Mechanics. (Fee: \$100)

EGME-3020 2 hours

Mechanical Engineering Laboratory II-Sp

Continuation of EGME-3010. Two two-hour laboratories per week. Prerequisite: EGME-3010 Mechanical Engineering Laboratory I. Corequisite: EGME-3150 Heat Transfer. (Fee: \$100) **EGME-3050** 3 hours

Introduction to Finite Element Analysis-Sp

Introduction to basic components of the finite element method including element selection, shape functions, strain-displacement and stress-strain relations, formulation of the stiffness matrix for 1-D, 2-D, and 3-D elements, linear strain and isoparametric formulations, application of boundary conditions, and interpretation of results; application to 2-D and 3-D problems and experience using a commercial code. Prerequisites: EGME-2050 Computational Methods; EGME-2530 Statics and Mechanics of Materials. (Fee: \$25)

EGME-3110 Thermodynamics-Fa

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

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 3 hours

Introduction to the physical and mechanical properties of metals and alloys; crystal structure, phase equilibria, defects, strengthening mechanisms, and kinetics of reactions. *Prerequisite: EGME-2410 Properties of Engineering Materials.*

EGME-3450 Plastic and Composite Materials-Sp 2 hours

Introduction to the properties and processing of plastics, resins, and adhesives; rheology, creep-deformation history, and injection molding. Fiber-reinforced, carbon-carbon, and metal-matrix composites are analyzed for strength, anisotropy, and applicability. *Prerequisite: EGME-2410 Properties of Engineering Materials.*

Kinematics and Design of Machines-Sp

EGME-3610

Introduction to the analysis and synthesis of motion in planar mechanisms and linkages; velocity and acceleration analysis, cam design, gears, simple and compound gear trains, computer solution and simulation. Design project required. *Prerequisite: EGME-2630 Dynamics.* (Fee: \$40)

EGME-3850 Mechanical Design-Sp 3 hours

Further development of load determination, stress, strain, deflection and failure theories; integration of an iterative problem solver in the design process; and analysis of fatigue failure. Introduction to the design of mechanical components including shafts, keys, couplings, bearings, gears, springs, and fasteners. Prerequisite: EGME-2410 Properties of Engineering Materials. Corequisites: EGME-3020 Mechanical Engineering Laboratory II; EGME-3610 Kinematics and Design of Machines. (Fee: \$25)

EGME-3920 Mechanical Engineering Internship

An opportunity for a mechanical engineering student to work closely with an industrial advisor. Specific attention is given to solving a particular problem(s) in that industry or firm. A faculty advisor assists in supervising and approving the internship, including assessing the number of credit hours. A final report (approximately seven pages per credit hour) describing the experience, including the problem and solution, is required. Must be arranged with faculty sponsor and work supervisor before starting and cannot be used to satisfy elective credit requirements. Prerequisites: junior or senior engineering major status; faculty advisor's permission.

EGME-3950 1–3 hours

Topics in Mechanical Engineering-Fa, Sp

Selected topics in mechanical engineering at the 3000-level that will compliment or extend present 2000- or 3000-level courses or expose students to topics not taught in other courses; may be proposed by the engineering faculty or students. *Prerequisite: instructor's permission.*

EGME-3980

1-3 hours

Independent Study in Mechanical Engineering

Opportunity to perform independent study or research in the various branches of engineering and allied fields of application. A formal proposal for study must be approved by the faculty advisor before registering for this course. Up to three credit hours of engineering electives can be satisfied by an equivalent number of hours of independent study. *Prerequisites: junior or senior engineering major status; faculty advisor's permission.*

EGME-3990 1–3 hours Project Design in Mechanical Engineering

An elective course for students to get academic credit for extracurricular design work in mechanical engineering; project may be related to a design competition, ministry, industry, or personal interest. Cannot be used to satisfy engineering elective requirements. *Prerequisite: instructor's permission.*

EGME-4050 2 hours

Finite Difference Methods In Engineering-Fa

Finite-difference approximations for derivatives and differential equations applied to solve engineering problems; consistency, stability, truncation error, and introduction to grid generation.

Prerequisites: EGME-2050 Computational Methods; MATH-2710 Calculus III. (even years)

EGME-4060 2 hours

Computational Fluid Dynamics-Sp

Introduction to computational fluid dynamics for solving 2-D and 3-D engineering problems. Formulations of the Navier-Stokes equations will be examined. The basis of the numerical methods in advanced CFD commercial codes will be studied for understanding how to intelligently use engineering software to solve problems. Topics include: formulation of new problems, generating CAD grids, identifying and writing appropriate boundary/initial conditions, selecting solution techniques and turbulence models available in the code, and running and interpreting the validity of the results. *Prerequisites: EGME-3210 Fluid Mechanics; EGME 4050 Finite Difference Fluid Methods in Engineering.* (even years)

EGME-4160 Radiation and Solar Energy-Fa

2 hours

Introduction to the fundamentals of radiation heat transfer including shape factors, wave-length dependence, and material properties. Applications to solar energy engineering and design problems. *Prerequisite: EGME-3150 Heat Transfer.*

EGME-4250 Propulsion-Fa

2 hours

Introduction to the principles of thrust production, compressible flow of gases, thermodynamics of jet propulsion systems, and parametric performance analysis of jet engines. *Prerequisites: EGME-3110 Thermodynamics; EGME-3210 Fluid Mechanics.* (odd years)

EGME-4270 Compressible Fluid Flow-Sp 2 hours

Introduction to the compressible flow of gases in engineering systems; isentropic flow in variable-area passages, shock and expansion waves; and flow with wall friction and heat transfer. *Prerequisites: EGME-2050 Computational Methods; EGME-3110 Thermodynamics; EGME-3210 Fluid Mechanics.*

EGME-4410 3 hours

Introduction to Fracture Mechanics-Sp

Introduction to failure modes caused by static and dynamic loading, brittle fracture criteria, elastic behavior, stress fields around cracks, fatigue failure, stress corrosion cracking, and strain hardening mechanisms. *Prerequisite: EGME-2410 Properties of Engineering Materials*.

EGME-4530 Advanced Mechanics of Materials—Fa 3 hours

Advanced treatment of stress and strain including coordinate transformations, the eigenvalue problem, Mohr's circle and linear constitutive equations. Failure theories and energy methods, including Castigliano's theorems, are studied; applications to classical topics including analysis of beams with non-symmetrical sections, non-circular torsion, thin-wall beams, and beams on elastic foundations. *Prerequisite: EGME-2530 Statics and Mechanics of Materials.* (odd years)

EGME-4560 Biomechanics and Biomaterials-Sp 3 hours

Introduction to biomechanics of the human body, reactions of biological tissue and synthetic materials to load, and the biomechanics of biomaterials. Advanced mechanical analysis of rigid and deformable bodies and fluid mechanics applied to bone, muscle, connective tissue and blood. This course will provide foundational knowledge to the engineering student for occupations in medical device manufacturing, health and sport sciences industries, and advanced fields of study. *Prerequisites: EGME-2410 Properties of Engineering Materials, PHYS-2120 General Physics II and MATH-2740 Differential Equations.* (odd years)

EGME-4610 Dynamics of Machines—Fa 3 hours
Dynamic analysis of machines and mechanisms; Newton's laws
of motion, energy methods, force analysis, shaking forces, static

and dynamic balancing, engine dynamics, multi-cylinder engines, and cam dynamics. *Prerequisite: EGME-3610 Kinematics and Design of Machines.*

EGME-4660 Principles of Automatic Controls-Fa 3 hours

Introduction to theoretical and experimental analysis of classical analog feedback control systems with emphasis on modeling, transfer function formulation, frequency response, root locus, Bodé plots, stability, and compensator design. Three lecture hours and one two-hour laboratory or recitation per week; design project required. *Prerequisite: EGEE-2050 Circuits and Instrumentation.* (Fee: \$100)

EGME-4710 Vibrations-Sp

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
Laboratory experiments to demonstrate and support EGME-4710 Vibrations; function and calibration of instrumentation and motion detection transducers, measuring the frequency response and impulse response function, electrodynamic shakers, instrumentation, Fast Fourier Transform, spectral analysis, and experience using a commercial FFT analyzer. One two-hour laboratory per week. *Pre- or Corequisite: EGME-4710 Vibrations*. (Fee: \$100)

EGME-4750 3 hours

Random Vibrations and Signature Analysis

Introduction to vibration analysis of discrete and continuous systems to random excitation, harmonic vibration, transient response, convolution integral, Laplace and Fourier Transform, Discrete Fourier Transform, Fast Fourier Transform, random variables, coherence, correlation, auto- and cross-correlation, power spectral density, transfer function, and modal analysis; experience using a commercial FFT analyzer. Design project required. *Prerequisite: EGME-4710 Vibrations.* (Fee: \$100)

EGME-4810

Mechanical Engineering Senior Design I-Fa

3 hours

This is the senior capstone design project for mechanical engineers. Student teams work independently on a design project to find a solution consistent with stated specifications using principles studied in previous courses. Work in this semester includes writing the proposal and performing background research and preliminary design. Students conduct a mid-term design review and end-of-semester oral and written presentation. Projects are advised by a faculty committee; course includes weekly written progress reports and meetings with the faculty project advisor. Prerequisites: EGME-3850 Mechanical Design; EGME-3610 Kinematics and Design of Machines; EGME-3150 Heat Transfer; EGME-3020 Mechanical Engineering Lab II; and senior status. (Fee: \$100)

EGME-4820 3 hours Mechanical Engineering Senior Design II—Sp

A continuation of EGME-4810, emphasizing detailed design, prototyping, troubleshooting, design modifications, project completion, reporting, and oral presentation. Students submit written progress reports and attend meetings each week with the faculty project advisor, conduct an oral presentation, and prepare the final report. *Prerequisite: EGME-4810 Mechanical Engineering Senior Design I.* (Fee: \$100)

EGME-4950 1–3 hours

Advanced Topics in Mechanical Engineering-Sp

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

Department of English, Literature, and Modern Languages Course Descriptions

Arabic Language (ARBC)

ARBC-1400

3 hours

3 hours

Introduction to Arabic Language and Culture

Introduction of the Arabic script and basic vocabulary used for greetings and other everyday situations. Introduction to various aspects of Arab culture, including history, religion, literature, politics, and daily life. This course is intended for non-native speakers with no previous Arabic study. This course satisfies the global awareness course requirement.

ARBC-1410 Elementary Arabic I-Fa

4 hours

Development of basic skills in reading, writing, speaking, and listening in Arabic, along with an introduction to Arabic culture.

ARBC-1420 Elementary Arabic II-Sp 4 hours

Development of basic skills in reading, writing, speaking, and listening in Arabic, along with an introduction to Arabic culture. *Prerequisites: ARBC-1410 Elementary Arabic I, instructor's approval, or placement by exam.*

ARBC-2410 Intermediate Arabic I-Fa

4 hours

Development of all four language skills through grammar review, composition, conversation, and readings in Arabic literature and culture. *Prerequisites: ARBC-1410 Elementary Arabic I and ARBC-1420 Elementary Arabic II, instructor's approval, or placement by exam.*

ARBC-2420 Intermediate Arabic II—Sp 3 hours

Development of all four language skills through grammar review, composition, conversation, and readings in Arabic literature and culture. *Prerequisites: ARBC-1410 Elementary Arabic I, ARBC-1420 Elementary Arabic II, ARBC-2410 Intermediate Arabic I, instructor's approval, or placement by exam.*

ARBC-3500

Independent Study in Arabic Language and Culture-Fa, Sp

This course gives opportunity for independent study in a particular area of Arabic language and culture for students who demonstrate special interests and ability.

Chinese (CHN)

CHN-1100 Elementary Chinese I-Fa, Sp

4 hours

1-3 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.*

English (ENG)

ENG-0900 Writing Studio-Fa, Sp

1 hour

This course prepares students for university-level, academic writing by focusing on the rhetorical situation and exposing students to a wide variety of writing situations for which appropriate audiences, purposes, genres, stances, and mediums must be ascertained. The course aids students with various writing assignments by workshopping drafts in process for composition and other courses across the curriculum. While the rhetorical situation and writing process are emphasized, grammar will be a major focus as well. *Co-requisite: ENG-1400 Composition; or permission of instructor.*

ENG-1400 Composition—Fa, Sp

3 hours

Designed to assist the student in developing the skills necessary to meet the demands of typical writing situations, both academic and professional. The course will introduce the student to the common expository writing methods of description, narration, analysis, persuasion, and research presentation. (Fee: \$25)

ENG-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 Composition*.

ENG-2220 Introduction to Creative Writing–Fa, Sp **3 hours**

This course is a prerequisite requirement for any 3000-level creative writing course. The course covers basic instruction in technique and style for all three genres of creative writing: fiction, creative nonfiction, and poetry. *Prerequisite: ENG-1400 Composition*.

ENG-2230 Advanced Composition-Fa, Sp 3 hours

An advanced treatment of the composing process, particularly related to the planning, drafting, revision, and final composition of essays. Writing workshops and peer evaluations are included. *Prerequisite: ENG-1400 Composition.*

ENG-3010 Style and Mechanics for Writers-Fa, Sp, Su 3 hours

Students will learn to apply reliable principles to make writing clear, concise, coherent, and cohesive. (Crosslisted with PWID-3010 Style and Mechanics for Writers) *Prerequisite: ENG-1400 Composition.*

ENG-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-2220 Introduction to Creative Writing.*

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-2220 Introduction to Creative Writing.

ENG-3050 Creative Writing: Nonfiction–Sp

3 hou

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-2220 Introduction to Creative Writing.*

ENG-3060 The English Language-Fa

s nours

Historic treatment of the growth and change in the English language with some attention to the ideologies implicit in the development of variant conventions. *Prerequisite: ENG-1400 Composition.*

ENG-3070 English Grammar-Fa, Sp

3 hours

In this course, students will study the conventions of the English language, which include the grammar and syntax of standard English. Students will use Reed and Kellogg traditional sentence diagrams to analyze and to represent the syntax of English sentences. The course also includes discussions about contemporary usage. Required of all majors with English as a teaching field. *Prerequisite for adolescent and young adult language arts majors only: ENG-2070 Fundamentals of English Grammar.*

ENG-3180 Visual Rhetoric-Fa

2 hours

Students will be given an overview of visual design principles and practices related to the technical communication field. During the course, students will build their design acumen by reading widely and by participating and leading coherent, comprehensive discussions. Students will also practice their growing design expertise by critiquing various visual tratments, writing a treatise on the Christian approach to visual communication, and by analyzing visual communication through the lens of a Christian worldview.

ENG-3200 Practicum in Writing Instruction—Sp 2 hours

This course is designed to explore and practice the various methods and theories essential to the teaching of written expression. Course content includes discussion of and practice with the CCSS (Common Core) writing standards, the writing process, and assessment of student writing. *Prerequisite: EDUC-2300 Assessment and Differentiation.*

ENG-3220 Advanced Journalism-Sp

2 hours

Designed for the student who anticipates writing as a vocation or avocation. The emphasis is on reporting and writing for newspapers and magazines. Topics of study include: beat reporting, developing the in-depth features and series, investigative practices, standards and ethics, community and publisher relations, and manuscript production. *Prerequisite: ENG-2210 Principles of Journalism.*

ENG-3300 Developmental Reading-Sp

3 hours

Includes basic philosophies, testing, evaluation, clinical methods, and materials utilized in the prescriptive teaching of basic reading skills in the language arts content area for adolescent/young adult teachers. Field and clinical experiences included. Prerequisite: admission to the Teacher Education Program. (Fee: \$25)

ENG-3550 Writing Center Theory and Training-Sp 2 hours

Designed to orient students to writing center theory and practice. Will train students for employment opportunities in the writing center. Prerequisite: ENG-1400 Composition; permission of instructor.

ENG-3620 Practicum in Journalism-Fa, Sp 1 hour

Experience in the varied tasks of the journalistic enterprise. Prerequisite: ENG-2210 Principles of Journalism.

ENG-4030 Advanced Workshop: Fiction-Fa 2 hours

Course provides an opportunity to do high-level work in fiction writing. Workshop environment will be rigorous and diagnostic, but also supportive. Prerequisite: ENG-3030 Creative Writing: Fiction (odd years)

ENG-4040 Advanced Workshop: Poetry-Sp 2 hours

Course provides an opportunity to do high-level work in poetry. Workshop environment will be rigorous and diagnostic, but also supportive. Prerequisite: ENG-3040 Creative Writing: Poetry (odd vears)

ENG-4050 Advanced Workshop: Nonfiction-Sp

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-4230 Independent Study in English-Fa, Sp 1-3 hours

Independent study in a selected field for students with special interests and demonstrated ability.

ENG-4345 1 hour

Creative Writing: Portfolio and Performance-Fa, Sp

Course provides an opportunity to prepare a final collection of creative writing in close consultation with the advising professor. Students will also organize and present a public reading of their work. Prerequisite: any two 4000-level creative writing workshops.

Film (FILM)

FILM-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 course will focus on viewing and evaluating films containing Christian motifs such as redemption, sacrifice, sin, and faith. This course may be used to satisfy the general education humanities elective requirement.

French (FREN)

FREN-1910

4 hours

Elementary French I-Fa

Development of basic skills in reading, writing, speaking, and listening in French, along with an introduction to French culture. FREN-1920

Elementary French II-Sp

Development of basic skills in reading, writing, speaking, and listening in French, along with an introduction to French culture.

Prerequisite: FREN-1910 Elementary French I.

FREN-2910, 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; FREN-2910 Intermediate French I prerequisite for Intermediate French II; instructor's approval or placement by exam.

FREN-3910 French Conversation-Fa

Designed to increase the student's aural comprehension and oral communication in French. Attention given to pronunciation, vocabulary building, communication strategies, and effective cross-cultural communication. Prerequisite: FREN-2920 Intermediate French II; instructor's approval or placement by

FREN-3920 Contemporary French Culture-Sp 3 hours

Exploration of beliefs, behaviors, and values of Francophone cultures through a comparative approach that provides a framework for describing France and the French in relation to others and themselves. Prerequisite: FREN-2920 Intermediate French II; instructor's approval or placement by exam.

FREN-3930 Survey of French Literature-Sp

3 hours

This course focuses on a sampling of French literature selections set in historical context. The course includes readings from major French and Francophone authors. Students will gain knowledge of the literature, analyze the techniques used, and gain cultural background and understanding. Prerequisite: FREN-2920 Contemporary French Culture or permission of instructor.

German (GER)

GER-1810 Elementary German I-Fa

4 hours

Development of basic skills in reading, writing, speaking, and listening in German, along with an introduction to German culture.

GER-1820 Elementary German II-Sp

Development of basic skills in reading, writing, speaking, and listening in German, along with an introduction to German culture. Prerequisite: GER-1810 Elementary German I.

GER-2810 Intermediate German I

4 hours

Development of all four language skills through grammar review, composition, conversation, and readings in German literature and culture. Prerequisite: GER-1820 Elementary German II or equivalent.

GER- 2820 Intermediate German II 3 hours

Development of all four language skills through grammar review, composition, conversation, and readings in German literature and culture. Prerequisite: GER-2810 Intermediate German I or equivalent.

GER-3800 Special Topics in German-Fa, Sp

Topic chosen by the student and professor, based upon need and interests. Prerequisite: GER-2820 Intermediate German II or equivalent.

GER-3810 German Conversation and Composition-Sp 3 hours

Students will focus on the productive skills of the German language, speaking and writing. Oral practice in German through speeches and oral reports, along with a review of pronunciation, will provide emphasis on speaking skills. Written versions of speeches and reports, along with a review of grammar, will provide emphasis on writing skills.. Prerequisite: GER-2820 Intermediate German II or equivalent. (even years)

GER-3820 Germanic History and Culture-Sp 3 hours

This course is designed to introduce students to the history and culture of Central Europe, specifically the region where German is the native language of the inhabitants and where present-day Germany, Austria and Switzerland are located. Students will also learn how Germanic History influenced and played a role in establishing modern-day western cultural norms. Course taught in English. (odd years). 3 hours

GER-3830 Survey of German Literature-Fa

A survey of German literature from the Middle Ages through the 20th century designed to provide the student with an understanding of the literature and its reflection of the culture. Readings in German and English. Prerequisite: GER-2820 Intermediate German or equivalent.

Linguistics (LING)

LING-2070 Introduction to Linguistics-Sp

2 hours

This introduction to the study of linguistics provides an opportunity for students to become familiar with the tenets, concepts, and theories of the field of study. It additionally acquaints students with the practical side of the study of linguistics in disciplines such as philosophy and biblical languages, English and writing, cultural studies, mathematics, information technology, computer science, education and psychology, electronic media, and teaching English to speakers of other languages.

LING-3080 Linguistics for Language Learning—Fa 3 hours

An analytical approach of language functioning applicable to learning any second language. Using theoretical-based approaches, the emphasis is on English language variations, phonology, morphology, and syntax. The student is also introduced to various theories of second (new) language acquisition at different age/grade levels. Second (new) language study as a means of personal development and the importance of second (new) language learning in modern society are addressed. *Prerequisite: degree-seeking students only; sophomore, junior, or senior status only.*

LING-3082 Phonetics-Fa

3 hours

Phonetics is the study and classification of speech sounds, within the broader study of phonology, the study of the sound system of language. This course builds on the theories of phonology and provides opportunities for practical application of the theories. Students will work with the International Phonetic Alphabet (IPA) in classifying sounds in standard and nonstandard forms of English and will consider and classify the sounds of other languages. *Prerequisites: LING-2070 Introduction to Linguistics; LING-3080 Linguistics for Language Learning.*

LING-3090 Sociolinguistics-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-3100 Principles of Language Acquisition—Fa 3 hours

The practical side of the study of linguistics is the study of how language is acquired, both by children learning to speak and by adults learning a second language. This course will present the basic theories of both types of language acquisition and will provide students the opportunity to do original research in the field. Prerequisite: degree-seeking students only; sophomore, junior, or senior status only. LING-3080 Linguistics for Language Learning.

LING-3500

2 hours

Methods of Teaching Foreign Language-Fa

Designed around ACTFL's Standards of Foreign Language learning, this course prepares students to teach in the K-12 world language classroom and also to teach English as a new language. In this course, students will examine the purposes and objectives along with the methods and curricular models appropriate for the K-12 world language classroom, as well as adult-level language teaching. This course addresses theories of second language acquisition and how language learning looks different at the various stages of a language learner's life. Using theory to inform practice, students will learn to plan and assess for student learning, including the creation of learning activities, assessments, lesson plans, and thematic unit plans, as well as evaluating and providing feedback to maximize student learning. Students will also gain insight into the importance of understanding one's own language, culture, and worldview as a means to understanding the language, culture, and worldview of the target peoples and the important role that cultural understanding plays in communication. This course will prepare students to plan, teach, and assess effectively in today's rapidly changing classroom. Open to students majoring in multi-age Spanish education or linguistics, and those minoring in TESOL. Prerequisites: degree-seeking students only; sophomore, junior, or senior status only; LING-3100 Principles of Language Acquisition; permission of instructor or adviser. (crosslisted with SPAN-3500)

LING-3710 2 hours

TESOL Practicum for Non-Education Majors-Sp

Practice teaching of ESL under general supervision of master teacher for non-education majors who are completing TESOL minor requirements. Prerequisite: degree-seeking students only; sophomore, junior, or senior status only; COM-2140 Intercultural Communication; ENG-3070 English Grammar; LING-3080 Linguistics for Language Learning; LING-3500 Methods of Teaching Foreign Language. Credit/No credit. (Fee: \$45)

NG-4100

3 hours

Advanced Linguistics/Field Methods-Sp

This course is the capstone course for the major in linguistics. In this course, students will put into practical application the theories and concepts learned while completing the requirements for the major. Prerequisites: LING-2070 Introduction to Linguistics; LING-3080 Linguistics for Language Learning; LING-3082 Phonetics; LING-3090 Sociolinguistics; LING-3100 Principles of Language Acquisition.

Literature (LIT)

LIT-1990 First-Year Seminar

3 hours

This course will provide instruction in the close reading of and the analytical writing about literary texts. *Prerequisites: ENG-1400 Composition.*

LIT-2090 Literary Analysis-Fa, Sp

3 hours

Introductory study of contextual analysis. This course is primarily intended for adolescent and young adult integrated language arts and English majors as preparation for upper-division literature courses. *Prerequisite: LIT-1990 First-Year Seminar*

LIT-2120 History of Literary Criticism—Sp

3 hours

A study of the rich philosophic heritage of the West, this course is designed to familiarize students with the writers whose works have defined the critical canon as the result of the way they addressed three questions: What is the function of literature? What is the role of an author? How do we evaluate literature? Featured writers will range from Plato, Aristotle, and Augustine to Lewis, Eliot, and Bakhtin. *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 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 World 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-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-3090 Literary Research and Recovery-Sp 3 hours

This course will introduce students to current trends in literary scholarship that emphasize the (re)discovery, evaluation, and recovery of formerly marginalized writers and genres. The course could include, but is not limited to, an introduction to primary research related to 19th and early 20th-century periodicals, literary biographies, literary bibliographies, and original manuscripts or previously published texts maintained in the Cedarville University archives. Prerequisites: ENG-1400 Composition; LIT-2090 Literary Analysis; and LIT-2390 Survey of American Literature for Enlighs and Integrated Language Arts majors; for any major other than English and integrated language arts, permission of the instructor. LIT-3100

Contemporary Young Adult Literature-Sp

A study of contemporary young adult literature, addressing issues of interpretation, analysis, and personal response with an emphasis on literature that reflects a diversity of gender, race, and ethnicity. Corequisite: major status or permission of instructor.

LIT-3170 American Literature: 1820–1865–Sp 3 hours

Intensive study of American authors who are representative of the literary traditions of Romanticism and Transcendentalism and their influence on a period of history often called the American Renaissance. Authors may include Emerson, Thoreau, Fuller, Whitman, Dickinson, Douglass, Jacobs, Stowe, Poe, Hawthorne, Melville, and others. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisite: LIT-2390 Survey of American Literature to 1900.* (even years)

LIT-3180 American Literature: 1865–1914–Sp

Intensive study of American authors who are representative of the literary traditions of Realism and Naturalism, with attention to their influence on developments in American history between the Civil War and World War I. Authors may include Twain, Howells, James, Wharton, Piatt, Jewett, Freeman, Chesnutt, Crane, London, Dreiser, Norris, Alcott, and others. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisite: LIT-2390 Survey of American Literature to 1900.* (odd years)

LIT-3230 Directed Readings-Fa, Sp

1-3 hours

Selected readings designed to strengthen the major by providing primary and secondary material in preparation for an independent study of a major writer, literary genre, or literary period. Upper-level literature courses cannot be used as a substitution for the general education literature requirement.

LIT-3240 Directed Writings-Fa, Sp

1-3 hours

Students will work in close consultation with a faculty member on the creation and production of a significant project in one of the following genres: poetry, fiction, creative nonfiction. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisite: any 3000-level creative writing workshop.*

LIT-3310 The English Novel-Fa

3 hours

Reading and critical analysis of representative novels written in English. Authors include Fielding, Barnes, Rushdie, Gordimer, and Greene. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. 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

LIT-3320 Renaissance Literature—Sp
A study of Metaphysicals, Milton, and other selected
Renaissance writers. Upper-level literature courses cannot be used as a substitution for the general education literature

requirement. Prerequisite: LIT-2090 Literary Analysis; LIT-2430 Survey of British Literature to 1800; or permission of instructor.

LIT-3330 18th Century British Literature—Fa 3 hours

Study of British writers from the Restoration through the Age of Johnson. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. Prerequisite: LIT-2090 Literary Analysis; LIT-2440 Survey of British Literature from 1800 to Present; or permission of instructor.

LIT-3340 British Romantic and Victorian Literature-Sp 3 hours

Study of British romantic and victorian literature and culture. Authors may include Wordsworth, Coleridge, Keats, Jane Austen, George Eliot, Charles Dickens, Charlotte Bronte, Wilkie Collins, Christina Rossetti, Bram Stoker, and others. *Prerequisite: LIT-2090 Literary Analysis, LIT-2440 Survey of British Literature from 1800 to Present, or permission of instructor.* (odd years)

LIT-3350 Shakespeare-Fa

3 hours

Representative comedies, history plays, tragedies, and sonnets. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisite: LIT-2090 Literary Analysis; LIT-2430 Survey of British Literature to* 1800; or permission of instructor.

LIT-3380 Contemporary British Literature–Fa 3 hours

Study of representative and significant 20th century British writers, especially those reflective of modern ideologies. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. Prerequisite: LIT-2090 Literary Analysis; LIT-2440 Survey of British Literature from 1800 to Present; or permission of instructor.

3 hours

3 hours

LIT-3400 3 hours

Contemporary Studies in World Literature-Sp

Study of contemporary literature outside the American and British traditions. Writers may include Chinua Achebe, Nadine Gordimer, Duong Thu Huong, Gabriel Garcia Marquez, Haruki Murakami, V.S. Naipaul, Moniru Ravanipur, Jose Saramago, Tatyana Tolstoya, Luisa Valenzuela, Gao Xingjian, and others. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisite: major status or permission of the instructor.* (even years)

LIT-3420 American Novel-Fa

Study of the historical development of the American novel and an analysis of the writings of major American novelists from Cooper to Roth. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *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. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *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. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisites: LIT-2090 Literary Analysis, LIT-2390 Survey of American Literature to 1900.*

LIT-3450 Contemporary Poetry–Fa 3 hours

This course covers major poetry written by 21st century poets and poetry written in the second half of the 20th century. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *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. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *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. Upperlevel literature courses cannot be used as a substitution for the general education literature requirement. *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. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *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. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisite: major status or permission of the instructor.* (even years)

LIT-3540 American Women Writers-Sp

Study of American Women writers between 1790 and 1940, covering diverse women writers, genres, themes, and current scholarship. Authors may include, but are not limited to Murray, Rowson, Child, Sedgwick, Kirkland, Fuller, Farnham, Cary, Cooke, Sara Payson Willis Parton (Fanny Fern), Cummins, Warner, Beecher, Keckley, Stowe, Wilson, Alcott, Jacobs, Southworth, Davis, Evans, Ruiz de Burton, Phelps, Stoddard, Harper, Freeman, Winnemucca Hopkins, Jackson, Woolson, Jewett, Chopin, Pauline Hopkins, Austin, Zitkalla-SA, Sui Sin Far, Wharton, Larsen Fauset, Cather, and Hurston. Upperlevel literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisite: ENG-1400 Composition*. (even years)

LIT-4100 Studies in Integrated Language Arts-Sp 3 hours

This course is designed to explore the various methods and theories essential to the teaching of English language arts. In this course, students will discuss and practice with theories of Backward Design, Long-term Planning and Assessment, 21st Century Skills, and High-leverage practices as they are specifically demonstrated in writing, reading, speaking, listening, and language development. Prerequisite: EDUC-2050 Teaching Diverse Learners, currently enrolled in LIT-3100 Principles of Teaching Adolescent and Young Adult, or permission of instructor.

LIT-4220 English Seminar-Sp 3 hours

Research seminar designed to help the student synthesize the skills emphasized in the English major. Required of all senior English majors. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. Capstone course.

LIT-4230 Independent Study in Literature—Fa, Sp 1–3 hours

Independent study in a selected field for students with special interests and demonstrated ability. Upper-level literature courses cannot be used as a substitution for the general education literature requirement.

LIT-4310 Literary Theory-Fa

3 nours

A study of theoretical literary contexts. Special consideration will be given to economic, political, psychological, linguistic and cultural contexts. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *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. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *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. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisite: LIT-2090 Literary Analysis; LIT-2430 Survey of British Literature to 1800; or permission of instructor.* (even years)

LIT-4490 Special Topics-Fa, Sp

1-3 hours

Investigation of such literary phenomena that have intrinsic worth and engage student interest. Upper-level literature courses cannot be used as a substitution for the general education literature requirement.

LIT-4510 3 hours

Recent American Literature 1945-Present-Sp

A study of the social, political, economic, and religious issues that defined the American experience in the last half of the 20th century. Diverse poetry, short stories, drama, novels, and films will be analyzed to give students an understanding of the myriad subjectivities that have shaped American values and attitudes since World War II. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisite: any 2000-level literature course.*

Spanish (SPAN)

SPAN-1710, 1720

4 hours/sem

Elementary Spanish I-Fa and II-Sp

Development of basic skills in reading, writing, speaking, and listening in Spanish to satisfy a broad variety of everyday, school, and work situations, along with an introduction to Hispanic cultures. *Prerequisite: SPAN-1710 Elementary Spanish I or Spanish placement test for Elementary Spanish II.*

SPAN-1740 Intensive Spanish-Su

6 hours

This course is a six-credit, short-term course designed for students who wish to combine SPAN-1710 Elementary Spanish I and SPAN-1720 Elementary Spanish II. *Prerequisites: minimum GPA 2.0, high school Spanish highly recommended.*

SPAN-2710, 2720

4/3 hours/sem

Intermediate Spanish I and II-Fa, Sp

Development of all four language skills through grammar review, composition, conversation, and readings in Spanish literature and culture. *Prerequisite: SPAN-1720 Elementary Spanish, instructor's approval, or placement by exam; SPAN-2710 Intermediate Spanish I prerequisite for Intermediate Spanish II.*

SPAN-2760 Spanish For Professionals-Sp

3 hours

Development of practical Spanish vocabulary and conversational skills related to careers in education, criminal justice, social work, and health care professions. *Prerequisite:* SPAN-2720 Intermediate Spanish or permission of instructor. (odd years)

SPAN-3100 Special Topics-Fa, Sp

1-3 hours

Available to upper-level or otherwise qualified students who have an interest in specialized areas of Spanish language or culture.

SPAN-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

Designed around ACTFL's Standards of Foreign Language learning, this course prepares students to teach in the K-12 world language classroom and also to teach English as a new language. In this course, students will examine the purposes and objectives along with the methods and curricular models appropriate for the K-12 world language classroom, as well as adult-level language teaching. This course addresses theories of second language acquisition and how language learning looks different at the various stages of a language learner's life. Using theory to inform practice, students will learn to plan and assess for student learning, including the creation of learning activities, assessments, lesson plans, and thematic unit plans, as well as evaluating and providing feedback to maximize student learning. Students will also gain insight into the importance of understanding one's own language, culture, and worldview as a means to understanding the language, culture, and worldview of the target peoples and the important role that cultural understanding plays in communication. This course will prepare students to plan, teach, and assess effectively in today's rapidly changing classroom. Open to students majoring in multi-age Spanish education or linguistics, and those minoring in TESOL. Prerequisites: degree-seeking students only; sophomore, junior, or senior status only; LING-3100 Principles of Language Acquisition; permission of instructor or adviser. (crosslisted with LING-3500)

SPAN-3610 Spanish Composition-Fa

3 hours

Emphasis on development of clear, natural, and effective written communication in Spanish. Includes grammar review, vocabulary expansion, discussion of stylistic elements, and practice in writing narrative, descriptive, and several types of expository texts. *Prerequisite: SPAN-2720 Intermediate Spanish or permission of instructor.*

SPAN-3620 Spanish Conversation-Fa

3 hours

Designed to sharpen the student's communication in oral Spanish and to increase aural comprehension of spoken Spanish. Attention given to pronunciation, vocabulary building, and practice on hearing and speaking through in-class presentations and other activities. Also emphasizes the development of culturally appropriate approaches to communication and comparative study of Anglo and Hispanic cultures. *Prerequisite: SPAN-2720 Intermediate Spanish or permission of instructor.*

SPAN-3640 Introduction to Hispanic Literature—Sp 3 hours

An introduction to basic concepts and vocabulary relating to literary theory through the study and analysis of representative works in Hispanic poetry, drama, and narrative, with emphasis on contemporary authors. *Prerequisite: SPAN-2720 Intermediate Spanish or permission of instructor.*

SPAN-3670 Introduction to Translation—Sp 2 hours

An introduction to theory and practice related to bilingual translation and interpreting. Students will learn strategies for translating a variety of text types, as well as the fundamentals of interpreting. *Prerequisite: SPAN-3610 Spanish Composition; or SPAN-3620 Spanish Conversation.* (odd years)

SPAN-3680 History of Hispanics in the U.S.-Sp 3 hours

Examination of historical and contemporary issues that have affected Hispanic cultures in the U.S. and their views of Anglos, including the immigrant experience. Course taught in English; counts for Global Awareness elective. (even years)

SPAN-3690 Hispanic Film-Sp

3 hours

Explores the genres of Hispanic film and how these genres portray the cultural, social, and political environments in Spain and the Americas. *Prerequisites: SPAN-3640 Introduction to Hispanic Literature; permission of instructor.* (even years)

SPAN-4610 Advanced Spanish Grammar-Fa

3 hours

Intensive review of high frequency grammatical structures problematic to non-native speakers of Spanish. Exploration of the history of the language as well as the theoretical aspects of the nature of language and the practical development of written and oral skills in Spanish. *Prerequisite: permission of instructor*. (even years)

SPAN-4640 Research in Language and Culture–Fa 3 hours

In-depth study of a particular topic of interest either through individual research or group discussion. Orientation may be interdisciplinary or author and genre specific. Capstone course. *Prerequisite: major or minor in Spanish; permission of instructor.* (odd years)

SPAN-4650 3 hours

Civilization and Literature of Latin America I-Fa

A survey of the geography, history, culture, and literature of Latin America from the pre-Columbian period through the 19th century. Emphasis is on the diversity of Latin American society and the factors that have shaped it. Literary works will be studied for their literary significance within their socio-historical context. *Prerequisite: SPAN-3640 Introduction to Hispanic Literature*. (odd years)

SPAN-4670 3 hours

Civilization and Literature of Latin America II-Sp

A survey of the history, culture, and literature of Latin America from the 19th century to the present. Emphasis will be on acquiring a greater awareness of current issues in Latin American society and understanding their contributing factors. Literary works will be studied for their literary significance within their sociohistorical context. *Prerequisite: SPAN-2720 Intermediate Spanish.* (odd years)

SPAN-4680 2 hours

Advanced Conversation and Composition-Sp

Development of oral and written communication skills at the advanced level as well as expansion of vocabulary dealing with a variety of contemporary topics. *Prerequisite: SPAN-3610 Spanish Composition, SPAN-3620 Spanish Conversation, or 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 3 hours

Selected reading and analysis of outstanding Peninsular theatre from Benavente, García Lorca, and other post-Civil War period dramatists. *Prerequisites: SPAN-3640 Introduction to Hispanic Literature; permission of instructor.* (even years)

Department of History and Government Course Descriptions

Anthropology (ANTH)

ANTH-1800 Cultural Anthropology-Fa, Sp

3 hours

Analysis of the concept and its importance for the study of man; an examination of various cultures of the world as they relate to technological, economic, social, political, and religious aspects of these cultures.

ANTH-4940 1–3 hours

Independent Study in Anthropology

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. *Prerequisite: permission of the instructor.*

Criminal Justice (CRJU)

CRJU-1310 Introduction to Criminal Justice—Fa

3 hours

Introduction to the discipline and institutions of criminal justice in the United States. Law enforcement, the courts, and corrections will be recognized as a system with interacting and interdependent institutions. An understanding and comprehensive view of the formal criminal justice system is essential. (Fee: \$60)

CRJU-1350 1 hou

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 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.

CRJU-2310 Juvenile Delinquency-Fa

3 hours

Study and assessment of causal theory and problems of correction and prevention of delinquency. Crosslisted as CRJU or SOC (Fee: \$15)

CRJU-2840

Concepts of Chemical Dependency–Fa, Sp, Su 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, PYCH, SOC, or SWK.

CRJU-3300 Corrections–Fa

3 hours

In-depth consideration of probation, penology, and community supervision sectors of the field of criminal justice. (Fee: \$30)

CRJU-3310 Corrections Administration—Fa 3 hours

Contemporary issues related to management of correctional organizations from the administrator's perspective within the context of legal and political parameters. *Prerequisite: CRJU-1310 Introduction to Criminal Justice.*

CRJU-3350 Criminal Law-Sp

3 hours

Focuses on the general classification of criminal offenses, rules of construction, burden and degree of proof, jurisdiction and venue, limitations to criminal prosecution, requirements for criminal liability, culpable mental states, defenses to criminal liability, and elements of criminal offenses. *Prerequisite: CRJU-1310 Introduction to Criminal Justice.*

CRJU-3360 American Judicial System-Fa

3 hours

An introduction to federal and state court systems, duties and responsibilities of the prosecutor, defense counsel, jury, and judge including related topics ranging from plea bargaining to sentencing. Crosslisted as CRJU or POLS. *Prerequisite: CRJU-1310 Introduction to Criminal Justice.*

CRJU-3390 Criminal Evidence-Sp

3 hours

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

Pertains to procedural law, which governs the enforcement of substantive criminal law. Emphasis on legal authority of law enforcement personnel and rights of the accused person with a review of pertinent U.S. Supreme Court decisions. Consideration is given to various procedural stages from criminal charges through post-conviction appeal. *Prerequisite: CRJU-1310 Introduction to Criminal Justice*.

CRJU-3500 3 hours

Foundations of Emergency Management-Sp

Intensive study of the community structures that are in place to prepare for, and respond to, community emergencies. Particular emphasis will be given to understanding the various government, nongovernment, and private agencies and organizations that participate in the community preparedness schema, the process of communicty emergency planning, and the risks and realities of serious emergencies in our communities. Students will critically interact with previous American disasters and the impact of policies and practices in their outcomes. Also, students will be guided to how they can positively contribute to the resiliency of their community and what to do in the event of a serious emergency event. *Prerequisites: CRJU-1310 Introduction to Criminal Justice.* (even years)

CRJU-3700 3 hours

Financial Management for Social Science Professionals– $\ensuremath{\mathsf{Sp}}$

Biblical principles of personal financial responsibility and their importance for honoring God, a Christian testimony, and avoiding monetary-corruptive influences in a criminal justice career. Topics in this area include: the biblical basis of work, budgeting, giving, tithing, spending, saving, debt, investing and financial stewardship. *Prerequisites: CRJU 1000-level core courses; ECON-2110 Essentials of Economics; or permission of instructor.*

CRJU-3990 Criminal Justice Internship-Fa, Sp, Su 3-12 hours

This internship places students in a professional criminal justice setting where they will gain insight into the practical and challenging situations of a career in criminal justice. Under supervision, students will apply classroom knowledge and contribute to agency operations. Students may earn up to 12 credit hours. Prerequisite: CRJU 1000 and 2000-level core courses or program director's permission.

CRJU-4150 Homeland Security-Sp 3 hours

This course is a study of the four central missions of domestic security. These areas are: domestic security, emergency preparedness, intelligence gathering and communication, and policy making. *Prerequisite: CRJU-1310 Introduction to Criminal Justice.*

CRJU-4160

3 hours

International and Domestic Terrorism-Sp

This course will introduce the student to the reality of domestic and international terrorism from a historical and contemporary perspective. Topics for consideration and study will include the mind and characteristics of the terrorist, the distinction between domestic and international terrorism, the religious terrorist contrasted with the political terrorist, the weapons of the terrorist, the United States government's efforts to control and/ or eradicate terrorism, and future predictions relative to terrorist activity. Crosslisted INTL and CRJU. *Prerequisites: CRJU-1310 Introduction to Criminal Justice.* (odd years)

CRJU-4200 Police Administration-Fa

3 hours

Focuses on contemporary policing issues and related administrative matters from the perspective of executive leadership. Emphasis on management of organizational resources regarding basic line and staff functions. Consideration is given to contemporary issues of community-oriented policing and federal legislative mandates. Case study is utilized. *Prerequisite: CRJU-1310 Introduction to Criminal Justice*.

CRJU-4320 Criminal Investigation-Fa

3 hours

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-4440 Special Topics-Criminal Justice 1–3 hours

Investigation of specific topics in Social Science and History that have intrinsic worth and engage student interest.

CRJU-4500 Comparative Criminal Justice-Sp

This course has been developed to provide students basic knowledge and understanding of criminal justice from an international/comparative perspective. The course will consist of study of historical legal traditions and the influence of those traditions on modern criminal justice processes and transnational criminal justice agencies. *Prerequisites: CRJU-1310 Introduction to Criminal Justice.* (odd years)

CRJU-4630 3 hours

American Constitutional Law — Civil Liberties and Rights—Sp
The United States Constitution defines the powers and scope
of the American government and delineates the rights and
liberties retained by the American people. This course focuses on
the Supreme Court's interpretation of those rights and liberties
by examining the Court's decisions in their legal and historical
contexts. Crosslisted as POLS. Prerequisites: GSS-1100 Politics

CRJU-4900 Research Issues in Criminal Justice-Fa 3 hours

This is a capstone course for criminal justice majors. The course will usually focus on a significant issue in contemporary criminal justice. Major papers will be presented by individual students on sub-categories of the primary topic. Additionally, the course will prepare a project that will be presented in a public forum. *Prerequisite: senior status as a CRJU major.* (Fee: \$80)

CRJU-4960 Independent Study in Criminal Justice

and American Culture

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.*

Geography (GEO)

GEO-3040 3 hours History and Politics of the British Isles and Canada—Sp

This course examines three countries: the United Kingdom, the Republic of Ireland, and Canada. After an extensive topical history along with a discussion of major prime ministers who served in the 19th and 20th centuries, this course also investigates contemporary issues including foreign policy, recent political debates, secessionist problems in Scotland and Quebec, membership in the European Union, and the ongoing structural changes to government. Crosslisted as HIST, INTL, and POLS. (even years)

GEO-3080 History of Russia and Eastern Europe-Fa 3 hours

The course will cover not only Soviet history but also major events of Russian history up to the Bolshevik Revolution. Soviet history will be studied in detail, with attention given to the development of non-Russian peoples in the empire. The political, economic, social, and foreign policy aspects of Soviet history will all be covered, emphasizing Perestroika and the Soviet collapse. Crosslisted as GEO, HIST, INTL, or POLS

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.

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-3510 3 hours

World Regional Geography — Western Hemisphere-Fa

Spatial survey of various regions in the western hemisphere with an emphasis on the cultural, economic, and political developments in relation to the geographical environment. **GEO-3520**3 hours

World Regional Geography — Eastern Hemisphere-Sp

Survey of various regions in the eastern hemisphere with an emphasis on the cultural, economic, and political developments in relation to the geographical environment.

GEO-4440 Special Topics-Geography 1–3 hours

Investigation of specific topics in Social Science and History that have intrinsic worth and engage student interest.

GEO-4920 1–3 hours

Independent Study in Geography

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. *Prerequisite: permission of the instructor.*

General Social Science (GSS)

GSS-1100 Politics and American Culture-Fa, Sp

3 hours

This course serves as an introductory study of America's constitution and political institutions, with emphases on political participation, political culture, and public policy. (Fee: \$5)

GSS-3630

4 hours

Data Analysis and Research Methodology-Fa, Sp

This course will train social science students in the use of statistical techniques that range from central tendency through bivariate regression, and it introduces students to the primary issues of research methodology, which includes levels of measurement, sampling, internal and external validity, and reliability. Students must also master the use of one piece of statistical software. Prerequisite: students must have satisfied Cedarville's mathematics proficiency requirement before enrolling in GSS-3630.

GSS-3640 3 hours

Qualitative Methodology and Reasoning-Fa, Sp

This is a course designed to introduce the students in the social sciences to qualitative, nonstatistical research methods. It includes qualitative, nonstatistical research methods. It includes qualitative research design, literature review, the interpretation of qualitative data, ethnographic methodology, proper methods of observation, interviewing and coding, testing the reliability of data, triangulation, and applying objective criteria to data. Included is an actual research project based on the material in the course.

GSS-3650 Quantitative Methodology–Fa, Sp 3 hours

This course satisfies the statistics and research methodology requirements for several social science majors at Cedarville University. The goals of the course are to introduce students to descriptive and inferential statistical concepts and methods and to familiarize them with quantitative methodology within the social sciences.

GSS-3810,3820 1 hour each

Clinical Teaching in the Social Sciences-Fa, Sp

Practical, on-campus, one credit hour experience in which a student is assigned to assist a college instructor in the preparation of tests and quizzes, grading, research, and other teaching responsibilities. A student will be expected to participate for 30 clock hours for each semester hour of credit. A student may arrange to do either of the following with the director of this experience in their discipline:

- 1. One 30-hour experience for two different semesters.
- 2. A 60-hour experience for one semester.

Prerequisite: admission to the Teacher Education Program.

GSS-4810 Policy Formation—Fa 3 hours

A core course of the D.C. Semester focusing on policy formation and encouraging appropriate appreciation for and analysis of that process from a biblically informed perspective. *Prerequisite: Acceptance into the D.C. Semester program.*

GSS-4820 Biblical Principles and Governance-Fa 3 hours

A core course of the D.C. Semester focusing on biblical principles related to the role of government, the responsibilities of citizens, and the evaluation of critical issues within the political system. *Prerequisite: Acceptance into the D.C. Semester program.*GSS-4990 Social Science/History Internship

1–16 hours

Majors who participate in government service, historical research, public administration, international studies, criminal justice, or other approved activities related to the social sciences may earn up to 16 hours of credit.

History (HIST)

HIST-1110 United States History I-Fa, Sp 3 hours HIST-1120 United States History II-Fa, 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 3 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. This does not fulfill the general education requirement for a HIST course.

HIST-2010 History of Civilization I-Fa, Sp 3 hours HIST-2020 History of Civilization II-Fa, Sp 3 hours

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-2100 Ohio History for Educators-Fa 2 hours

A survey of the history of the State of Ohio from pre-Colonial background to the present. Examines the settlement of Ohio by various Native American tribes, the early exploration and settlement by European migration and the state's place in national development from the 19th through 21st centuries.

HIST-3000 Introduction to Historiography-Fa

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)

History and Politics of the British Isles and Canada-Sp

This course examines three countries: the United Kingdom, the Republic of Ireland, and Canada. After an extensive topical history along with a discussion of major prime ministers who served in the 19th and 20th centuries, this course also investigates contemporary issues including foreign policy, recent political debates, secessionist problems in Scotland and Quebec, membership in the European Union, and the ongoing structural changes to government. Crosslisted as GEO, INTL, and POLS.

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. (even years)

HIST-3070 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 Eastern Europe-Fa 3 hours

This course will cover not only Soviet history but also major events of Russian history up to the Bolshevik Revolution. Soviet and Eastern European history will be studied in detail, with attention given to the development of non-Russian peoples in the empire. The political, economic, social, and foreign policy aspects of Soviet Eastern European history will all be covered, emphasizing Perestroika and the Soviet collapse. Crosslisted as GEO, HIST, INTL, or POLS.

HIST-3110 Early American History-Sp

3 hours

3 hours

Analysis of the development of American civilization from colonization to 1820. Political, religious, social, economic, and cultural institutions will be examined. Prerequisite: HIST-1110 United States History or permission of instructor.

HIST-3120 3 hours

History of Recent and Contemporary America-Fa

Intensive study of the domestic and foreign policies of the United States since 1945. Particular emphasis is given to American society in the 1950's, the Cold War, the Civil Rights Movement, the cultural revolution of the 1960's, American involvement in Vietnam, the Welfare State, Watergate, and the Reagan Revolution.

HIST-3130 Civil War and Reconstruction-Fa

Study of the sectional crisis, the military and nonmilitary aspects of the Civil War, and the social and political phases of Reconstruction. Prerequisite: HIST-1110, 1120 United States History. Alternates with HIST-3400 History of American Foreign Policy. (odd years)

HIST-3200 History and Politics of Latin America-Fa 3 hours

Analysis of the major historical, political, geographical, social, and diplomatic developments that have shaped contemporary Latin America. May be credited to geography, history, international studies, or political science. Crosslisted as GEO, HIST, INTL, or POLS. (even years)

HIST-3210 History and Politics of Asia-Fa 3 hours

Study of the historical, political, geographical, social, and diplomatic developments of Asia from the 18th century to the present. May be credited to geography, history, international studies, or political science. Crosslisted as GEO, HIST, INTL, or POLS. (odd years)

HIST-3220 History and Politics of the Middle East-Sp 3 hours

Analysis of the major historical, political, geographical, and social forces, such as religion and nationalism, that have shaped the contemporary Middle Eastern states. Crosslisted as GEO, HIST, INTL, or POLS.

HIST-3230 History and Politics of Western Europe-Sp 3 hours

This course will cover the development of Western European history and politics from approximately the year 1900 to the present. Concentration will be on the great European powers, but will include the smaller states. The political, economic, and social histories of the nations of Europe will be covered, as well as several macro-European issues. Crosslisted as GEO, HIST, INTL, or POLS. (odd years)

HIST-3300 3 hours

Modern Church History: Reformation to the Present-Sp This course examines the institutional, intellectual and external contextual aspects of the Church from the period immediately following the Reformation to the present. Specifically the course will study the external and internal developments of the Christian Church in this period. (odd years)

HIST-3310 American Church History-Sp 3 hours

A survey of major trends, ideas and individuals in the history of the Church in America from the 1600s to the present, including the theological roots of American theology. Special attention will be given to the Puritans, Jonathan Edwards, the rise of the Social Gospel and theological liberalism. (odd years)

3 hours

HIST-3400 History of American Foreign Policy-Fa 3 hours

American statesmen have defended the principles of their government and the rights of American citizens in a world of empires and nation-states. This course provides an overview of controversies over independence and imperialism, modern tyranny and regime change, which have marked U.S. foreign policy from the founding to the present day. Crosslisted as INTL or POLS. Prerequisite: GSS-1100 Politics in American Culture. (even

HIST-3710 3 hours

History of Political Thought I: Ancient Through Medieval-Fa

Study of the development of political thought in the ancient and early medieval era with special attention given to the works of Plato and Aristotle. Course may also explore topics in political philosophy. Crosslisted as HIST or POLS.

HIST-3720 3 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 economics, history, or political science or permission of instructor.

HIST-3730 American Political Thought-Fa

Survey and examination of the course of political thought in the American colonies and the United States from the 1600s to current times. Includes special attention to American Founders and the rise of political liberalism in the thought of Woodrow Wilson. Crosslisted as POLS or HIST. Prerequisites: GSS-1100 Politics and American Culture. (even years)

HIST-3750 Social Movements-Fa, Sp

3 hours Study of the influence of ideas and institutions upon social

movements in America. Crosslisted as HIST or SOC.

HIST-4050 Diplomacy of the Major Powers-Sp

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

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-4620 Church and State in America-Fa 3 hours

This course examines the historical, political, theoretical, and legal relationship between church and state in America. Particular attention will be paid to the American founding and changing perceptions of church and state over time. (odd years)

HIST-4700 Research in American History-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: \$80)

HIST-4900

1-3 hours

Independent Study in History

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. Prerequisite: permission of the instructor.

International Studies (INTL)

INTL-3040

3 hours

History and Politics of the British Isles and Canada-Sp

This course examines three countries: the United Kingdom, the Republic of Ireland, and Canada. After an extensive topical history along with a discussion of major prime ministers who served in the 19th and 20th centuries, this course also investigates contemporary issues including foreign policy, recent political debates, secessionist problems in Scotland and Quebec, membership in the European Union, and the ongoing structural changes to government. Crosslisted as GEO, HIST, and POLS. (even years)

INTL-3080 History of Russia and Eastern Europe-Fa 3 hours See course description for GEO-3080 History of Russia and Eastern Europe.

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. Crosslisted as INTL or POLS.

INTL-3200 History and Politics of Latin America—Fa 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.

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-3400 History of American Foreign Policy-Fa 3 hours

American statesmen have defended the principles of their government and the rights of American citizens in a world of empires and nation-states. This course provides an overview of controversies over independence and imperialism, modern tyranny and regime change, which have marked U.S. foreign policy from the founding to the present day. Crosslisted as HIST or POLS. Prerequisite: GSS-1100 Politics in American Culture. (even years)

INTL-3650 International Relations-Fa 3 hours

A survey of contemporary international affairs and principles of interstate relations, focusing on forces that unite and divide our world. Crosslisted as INTL or POLS.

INTL-3790 Comparative Politics-Fa

This course will familiarize students with major historical developments, political debates, and scholarly research in the subfield of comparative politics. Particular emphasis will be placed on topics of the modern state, nationalism, economic development, political culture and ideology, identity structure, regime types, regime transitions, and comparative political economy. Crosslisted as POLS or INTL. (odd years)

INTL-4050 Diplomacy of the Major Powers-Sp

3 hours

See course description for HIST-4050 Diplomacy of the Major Powers. Crosslisted as HIST, INTL, or POLS

INTL-4160 International and Domestic Terrorism-Sp 3 hours

In-depth study of terrorism, focusing worldwide and domestically. An intensive examination of ongoing international conflicts, narco-terrorism, eco-terrorism, cyber-terrorism, weapons of mass destruction, geographical trouble spots, enemies of the United States, terrorism-counter-terrorism theory and options, terrorism history, law, civil liberties, and Homeland Security. Crosslisted as CRJU and INTL.

INTL-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 Investigation of specific topics in Social Science and History

that have intrinsic worth and engage student interest.

INTL-4800 Seminar in International Studies-Fa 3 hours

A seminar/readings course intended to prepare senior students for graduate study. Through readings and discussion, students explore classical writings on international relations and international issues that are shaping our contemporary and future world. Crosslisted as INTL or POLS.

INTL-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.

Political Science (POLS)

POLS-2000 Introduction to Political Science-Fa

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

POLS-2250 Popular Culture and Politics-Sp 3 hours

This course will consider the relationship and effects which various forms of popular culture have had with/upon social and political movements as well as public policy initiatives both in America and International politics. The class will listen to, consider, and analyze a variety of cultural-artistic genres and the sociopolitical movements these engendered and supported in the 19th, 20th, and 21st centuries. Attention will be given to any or all of the following: music, film, art, and literature as well as to the historical, political, and social context. Crosslisted as POLS and SOC. (odd years)

POLS-2620 American State and Local Government-Sp3 hours

The organization and function of states and their political subdivisions form the basis of study in this course.

POLS-3040

History and Politics of the British Isles and Canada-Sp

This course examines three countries: the United Kingdom, the Republic of Ireland, and Canada. After an extensive topical history along with a discussion of major prime ministers who served in the 19th and 20th Centuries, this course also investigates contemporary issues including foreign policy, recent political debates, secessionist problems in Scotland and Quebec, membership in the EU, and the ongoing structural changes to government. Crosslisted as GEO, HIST, and INTL. (even years) **POLS-3080**

History of Russia and Eastern Europe-Fa

See course description for GEO-3080 History of Russia and Eastern Europe.

POLS-3100 Public Budgeting-Fa

3 hours

3 hours

See course description for PUAD-3100 Public Budgeting. (odd vears)

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

3 hours

See course description for GEO-3210 History and Politics of Asia. (odd years)

POLS-3220 History and Politics of the Middle East-Sp

See course description for GEO-3220 History and Politics of the Middle East.

POLS-3230 History and Politics of Western Europe-Sp

3 hours

See course description for GEO-3230 History and Politics of Western Europe. (odd years)

POLS-3360 American Judicial System-Fa

Federal and state court systems, duties and responsibilities of the prosecutor, defense counsel, jury, and judge including related topics ranging from plea bargaining to sentencing. Crosslisted as CRJU or POLS. Prerequisite: CRJU-1310 Introduction to Criminal Justice.

POLS-3400 History of American Foreign Policy-Fa 3 hours

American statesmen have defended the principles of their government and the rights of American citizens in a world of empires and nation-states. This course provides an overview of controversies over independence and imperialism, modern tyranny and regime change, which have marked U.S. foreign policy from the founding to the present day. Crosslisted as HIST or INTL. Prerequisite: GSS-1100 Politics in American Culture. (even

POLS-3600 Public Administration-Fa

3 hours

See course description for PUAD-3600 Public Administration. POLS-3610 Presidency-Sp 3 hours

This course analyzes the organization, behavior, and impact of the american presidency on American politics, policy, and culture. Attention is given to historical developments in the American presidency, the roles that presidents play in the American political system and the interaction of presidents with the public, interest groups, political parties, and the media. Prerequisites: GSS-1100 Politics in American Culture.

POLS-3630 Congress-Fa

3 hours

This course is a study of the legislative power in the American government. It focuses on the nature of the legislative power, and how that power was institutionalized in the Constitution. Emphasis is also placed upon the way our conceptions of Congress and the legislative power, have changed from the early national period to the present. The course also introduces the student to contemporary functions and procedures of Congress. Prerequisites: GSS-1100 Politics in American Culture

3 hours

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

POLS-3650 International Relations-Fa

3 hours

A survey of contemporary international affairs and principles of interstate relations, focusing on forces that unite and divide our world. Crosslisted as INTL or POLS.

POLS-3690 Public Policy-Sp

3 hours

3 hours

See course description for PUAD-3690 Public Policy. Prerequisite: GSS-1100 Politics and American Culture POLS-3710

History of Political Thought I: Ancient Through Medieval-Fa

See course description for HIST-3710 History of Political Thought I: Ancient Through Medieval.

POLS-3720 3 hours

History of Political Thought II: Modern and Contemporary-Sp See course description for HIST-3720 History of Political

Thought II: Modern and Contemporary POLS-3730 American Political Thought-Fa

Survey and examination of the course of political thought in the American colonies and the United States from the 1600s to current times. Includes special attention to American founders and the rise of political liberalism in the thought of Woodrow Wilson. Crosslisted as POLS or HIST. Prerequisites: GSS-1100 Politics and American Culture. (even years)

POLS-3760 Jurisprudence-Fa

3 hours

3 hours

A survey of historical and contemporary theories of law, including natural law, Yoderian theories, Theonomy, positivism, critical legal studies, historical jurisprudence, and others, as well as crucial legal concepts such as justice, due process, and current issues. Prerequisite: GSS-1100 Politics and American Culture. (even years)

POLS-3790 Comparative Politics-Fa 3 hours

This course will familiarize students with major historical developments, political debates, and scholarly research in the subfield of comparative politics. Particular emphasis will be placed on topics of the modern state, nationalism, economic development, political culture and ideology, identity structure, regime types, regime transitions, and comparative political economy. Crosslisted as POLS or INTL. (odd years)

POLS-4050

3 hours

Diplomacy of the Major Powers-Sp

See course description for HIST-4050 Diplomacy of the Major Powers. Crosslisted as HIST, INTL, or POLS.

POLS-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

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 Church and State in America-Fa 3 hours

This course examines the historical, political, theoretical, and legal relationship between church and state in America. Particular attention will be paid to the American founding and changing perceptions of church and state over time. (odd years)

POLS-4630

American Constitutional Law — Civil Liberties and Rights-Sp

The United States Constitution defines the powers and scope of the American government and delineates the rights and liberties retained by the American people. This course focuses on the supreme Court's interpretation of those rights and liberties by examining the Court's decisions in their legal and historical contexts. Crosslisted as CRJU. Prerequisites: GSS-1100 Politics and American Culture

POLS-4640

3 hours

American Constitutional Law — Government Powers and Federalism-Fa

This course provides an in-depth analysis of landmark Supreme Court decisions pertaining to the power struggles between the three branches of government at the national level and the power struggles between the national government and state governments. In addition, this course will analyze how Supreme Court Justices interpret the Constitution and construct their opinions. Prerequisite: GSS-1100 Politics in American Culture (even years)

POLS-4700 Prelaw Seminar-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-Sp

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: \$80) **POLS-4930**

Independent Study in Political Science

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.

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. (odd years)

PUAD-3390 Public Finance-Fa

3 hours

A consideration of the financing of local, state, and federal governments. Much attention is given to three functions of government: stabilization, distribution, and allocation. All major taxes that are present in the United States are studied as to structure, revenue gained, and present status. Crosslisted as ECON. Prerequisite: ECON-2340 Macroeconomics. (even years) PUAD-3600 Public Administration-Fa 3 hours

Introduction to public administration both as a discipline and

profession, including organization theory, budgeting, public policy analysis and evaluation, and public sector administration. Crosslisted as POLS or PUAD.

PUAD-3690 Public Policy-Sp

3 hours

Focus on decision making, problem solving, and methods of program analysis. Crosslisted as POLS or PUAD. Prerequisite: GSS-1100 Politics and American Culture

PUAD-4300 Great Books in History and Politics-Sp

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

PUAD-4440 Special Topics-Public Administration

Investigation of specific topics in Social Science and History that have intrinsic worth and engage student interest.

PUAD-4640 Strategies for Public Administration-Fa 3 hours

Designed to acquaint the advanced student in public administration or international studies with some of the policy decisions facing American government. All three levels of American government, federal, state, and local, will be examined in light of their particular relationships with foreign governments. (odd years)

PUAD-4800 Applied Public Administration-Sp

Capstone course for public administration majors, involving the research of issues related to public administration in the United States from a normative and/or empirical perspective. (Fee: \$80) **PUAD-4970** 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.

Sociology (SOC)

SOC-1300 Introduction to Sociology-Fa, Sp

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 3 hours

This course will consider the relationship and effects which various forms of popular culture have had with/upon social and political movements as well as public policy initiatives both in America and International politics. The class will listen to, consider, and analyze a variety of cultural-artistic genres and the sociopolitical movements these engendered and supported in the 19th, 20th, and 21st centuries. Attention will be given to any or all of the following: music, film, art, and literature as well as to the historical, political, and social context. Crosslisted as POLS and SOC. (odd years)

SOC-2310 Juvenile Delinquency-Fa

Study and assessment of casual theory and problems of correction and prevention of delinquency. Crosslisted as CRJU or SOC. (Fee: \$30)

SOC-2330 Introduction to Social Work-Fa, Sp 3 hours

See course description for SWK-2330 Introduction to Social Work.

SOC-2400 Marriage and the Family-Fa, Sp

A biblical theology of marriage and the family is developed as a means by which to evaluate contemporary dating, marriage, and family arrangements. A major focus of the course is upon practical application related to such topics as dating/courtship, engagement, marital adjustment, in-law relations, communication and conflict resolution, family planning, and discipline.

SOC-2840

3 hours

Concepts of Chemical Dependency-Fa, Sp, Su

See course description for SWK-2840. Crosslisted as CRJU, PYCH, SOC, or SWK.

SOC-2900 Ethics in the Helping Professions-Sp

This course is designed to introduce the student to current issues and ethical dilemmas confronting professional helpers. The course encourages development of critical thinking skills by looking at dilemmas from a multifaceted point of view. Codes of ethics for the various helping professions are reviewed and emphasis is placed on understanding these codes. The course strives to provide the student a foundation in basic concepts of ethics and values, an understanding of the complexity of ethical decision making, and a sense of how their own values affect practice. The primary focus of this course is ethics, critical thinking, decision making and self awareness. Crosslisted as SOC or SWK.

SOC-3330 Social Stratification-Fa

Study of the class structure and its implications for American society. Prerequisite: SOC-1300 Introduction to Sociology.

SOC-3340 Sociology of Religion-Fa

3 hours

The relationship of religion to society with particular reference to contemporary movements. (even years)

SOC-3420 Human Sexuality

2 hours

Study of biblical content regarding human sexuality and an analysis of contemporary concepts within a framework of Christian thought. Crosslisted with PYCH-3420 Human Sexuality. Prerequisite: PYCH-1600 General Psychology or permission of instructor.

SOC-3710 Family and Society-Sp

3 hours

This sociological study of the family examines the scientific knowledge that exists about traditional and contemporary household arrangements. Research on alternative family forms is evaluated in light of public policy decisions and a biblical view of the family.

SOC-3730 Social Problems-Sp

Study of selected social problems for the purpose of developing, understanding, and exploring approaches to the social treatment of these problems within a theistic framework.

SOC-3750 Social Movements-Fa, Sp

3 hours

See course description for HIST-3750 Social Movements.

SOC-4440 Special Topics-Sociology

1-3 hours

Investigation of specific topics in Social Science and History that have intrinsic worth and engage student interest.

SOC-4720 Social Theory-Fa

3 hours

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

SOC-4800 Research in Sociology-Sp

3 hours

Senior research paper in which each student focuses upon an issue or topic within the discipline of sociology. (Fee: \$80) SOC-4910 1-3 hours

Independent Study in Sociology

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. Prerequisite: permission of the instructor.

SOC-4990 Sociology Internship-Fa, Sp, Su

3-12 hours

Sociology majors who participate in government service, human services, research, social service, or other approved activities related to the social sciences may earn up to 12 hours of credit. Prerequisites: ANTH-1800 Cultural Anthropology, PYCH-1600 General Psychology, and SOC-1300 Introduction to Sociology

3 hours

3 hours

Social Studies Education (SSED)

SSED-3800 2 hours

Teaching Social Studies: Adolescent to Young Adult-Fa

An emphasis on the identification, examination, and implementation of the methods and materials that are appropriate for each teacher candidate's discipline area. Prerequisite: admission to the Teacher Education Program. Coreguisite: other courses in the Adolescent and Young Adult Principles of Teaching block or permission of department Chair.

Interdisciplinary Studies Course Descriptions

College Studies (COLL)

COLL-0900 Foundations-Fa, Sp

1 hour

Foundations is designed to orient students to the Cedarville University learning community, explore academic and life goals, and develop strengths to enhance academic success. The one-credit hour may not be used toward the hours needed for graduation. (Fee: \$150)

COLL-1010 MAP 0 hour

MAP (academic probation course) — a unique avenue in which to cultivate scholarship and discipline from a holistic approach for students who are struggling academically. The course is designed to help students in the context of relationship and accountability, to enable students to learn within the dynamics of their lives, to bring concrete strategies to the learning process and to develop skills that will translate into other realms of living. (Fee: \$200)

Developmental (DEV)

DEV-0900 Intermediate Algebra–Fa, Sp

2 hours

10 hours

Review of algebraic principles, which are then extended to the solution of polynomial equations, systems of linear equations, rational and radical equations, functional notation, exponential functions, and logarithmic functions with emphasis on computational proficiency. This course is designed to prepare the student for GMTH-1020 College Algebra or other mathematics courses of comparable difficulty. The class time consists of two hours of lecture and two one-hour laboratories each week. May not be applied toward the 128 semester hours needed for graduation nor toward the science and mathematics General Education Requirement.

Honors (HON)

Freshman Humanities Sequence: HON-1010,1020 The Making of the Modern Mind

HON-1010 The Classical and Medieval Ages 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-2510 The Arts and Social Change

of Market Ideas and Institutions

2 hours

As the culture becomes more diverse and increasingly influenced by multicultural traditions, performative modes reflect broader contexts. The nature of this course is to provide background in theory and practical work in areas of theatre, music, the visual arts, dance, and experimental performance art that focus on the reflection of or the initiation of changes in the status quo politically, economically, behaviorally, artistically, spiritually, and/or philosophically. Prerequisites: HON-1010 The Classical and Medieval Ages; HON-1020 Renaissance, Reformation, and Revolutions. Crosslisted with THTR-2510 The Arts and Social Change.

HON-3030 2 hours **Classical Liberal Thought: Modern Critiques and Defenses**

The course surveys modern criticisms and defenses of market economic ideas and institutions from about 1600 to the present. taking the reader through Mercantilism, Adam Smith, William Paley, Thomas Malthus, the Classical School, Conservative opponents, Christian Political Economy (1780-1835), early "Third Way critics, Socialist critiques (especially Marx), the Neo-Classical School, Keynes and Keynesianism, Von Mises, Hayek, Christian critiques and defenses, and Postmodern criticisms, to name a few of the more important ones. The course will include the historical context in the broader range of ideas as background and will involve some exploration of economic ideas in general in an understandable and non-technical way. The course will be conducted mainly through a series of primary source readings from the various periods under consideration. As we proceed in the class, we will from time to time pause to evaluate the case for and against markets in light of Sscriptural teaching. Prerequisites: HON-1010 The Classical and Medieval Ages; HON-1020 Renaissance, Reformation, and Revolutions.

HON-3060 Leadership

2 hours

Leadership as a societal role is addressed through analysis of theory and observation of practitioners. A chronology of methodological approaches to the study of leadership is presented. Assigned reading and class processing of ideas and theories prepare the student for observation and evaluation of leaders in a variety of disciplines.

HON-3070 Music and Nationalism 2 hours

This course explores the many expressions of music that have been inspired by the ideals of nationalism during the 19th and 20th centuries, primarily in Europe and in the United States. Prerequisites: HON-1010 The Classical and Medieval Ages; HON-1020 Renaissance, Reformation, and Revolutions.

HON-3130 2 hours Perspectives on Friendship, Love, and Romance

Explores friendship, love, and romance from historical, theological, and philosophical perspectives.

Body and Soul: Foundations for Human Personhood-Sp

HON-3140 2 hours

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-3150 Japanese Perceptions of Christianity 2 hours

This course will provide students an overview of Shinto, the history of Christianity in Japan, and Japanese aesthetic values. With this basic foundation students will then read and evaluate various works of contemporary Japanese literature, anime, and manga that depict Jesus and/or Christianity. Prerequisite: HON-1010 The Classical and Medieval Ages; HON-1020 Renaissance, Reformation, and Revolutions. (three-year rotation)

HON-3170 Music and Emotion

2 hours

An exploration of the emotional component of musical performance, listening, and worship. *Prerequisite: HON-1010 The Classical and Medieval Ages; HON-1020 Renaissance, Reformation, and Revolutions.* (three-year rotation)

HON-3210 Contemporary Global Issues-Sp 2 hours

Designed to provoke critical thinking about a broad range of complicated, cross-disciplinary issues that confront the world today. Students will be introduced to issues that are truly global–planetary problems, global economy, environmental issues, human rights, and basic human needs.

HON-3230 Chance, Emergence, or Design-Sp 2 hours

The origin of complexity and order in the universe is studied from three different perspectives: Neo-Darwinism (chance and necessity), Emergence, and Creation. Starting at the origin of the physical universe and ending with the origin of self-awareness, these perspectives are compared by their scientific value and their philosophical and religious implications. (odd years)

HON-3240 2 hours

Science and Religion: Middle Ages to Darwin-Sp

A seminar centering on major primary sources in the history of science, exploring the historical relationship of science and religion, particularly Christian theology, from the late Middle Ages to the Darwinian Revolution. *Prerequisite: HON-1010 The Classical and Medieval Ages; HON-1020 Renaissance, Reformation, and Revolutions.*

HON-3250 The Sixties: A Decade of Change 2 hours

This course will focus on one of the key decades of American history and American life: The 1960s. Key social, cultural, and political themes will be analyzed. Among the issues to be considered will be: the civil rights movement, the cultural revolution (from The Beatles to Woodstock), feminism, the new left, the Vietnam War, the assassinations, the legacy of the 60s. These movements will be evaluated from the perspective of a biblical world view. Since we know there is no such thing as a neutral fact, the interpretations of various authors and the instructor will be evaluated. *Prerequisites: HON-1010 The Classical and Medieval Ages; HON-1020 Renaissance, Reformation, and Revolutions.*HON-3300 The Biblical Canon 2 hours

An introductory study of the biblical canon from a historical, hermeneutical, and theological perspective. Students will consider how the Bible came to be and also how it functions as an authoritative collection of Scripture. Possible issues include the canon formation process, the relationship between the Old Testament and the New Testament, the hermeneutical impact of a canonical collection, the reception of the canon among the believing community, the criteria for canonicity, the relationship between canon and inspiration, and the significance of relevant non-canonical literature. The course will also have a specific focus on the composition, canonization, and consolidation of a selected corpus of biblical writings. *Prerequisites: HON-1010 The Classical and Medieval Ages; HON-1020 Renaissance, Reformation, and Revolutions.*

HON-3310 The Philosophy of Love and Sex 2 hours

An introductory reflection on the conceptual and normative issues in the philosophy of love and sex. Students will read standard historical treatments of these issues from Plato, Aristotle, Aquinas, and Kant, among others, as well as contemporary philosophical perspectives. Issues include the nature of love and its kinds, the relation of lover and beloved, forgiveness, gender, sexual perversion, abortion, and marriage. *Prerequisites: HON-1010 The Classical and Medieval Ages; HON-1020 Renaissance, Reformation, and Revolutions.*

HON-4110 History of Public Address

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. *Prerequisites: HON-1010 The Classical and Medieval Ages; HON-1020 Renaissance, Reformation, and Revolutions.* Crosslisted with COM-4110 History of Public Address.

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 BRDM-4155.*

HON-4910 Honors Senior Colloquium I

1 hour

Development of a generic understanding of the integration of faith, learning, and life.

HON-4920 Honors Senior Colloquium II

1 hour

Development of a disciplinary understanding of the integration of faith, learning, and life.

HON-4950 Honors Senior Project

1-2 hours

The writing of an interdisciplinary research project.

Liberal Arts (LART)

LART-1000 Introduction to Liberal Arts-Fa

1 hour

An introduction to the liberal arts and the Liberal Arts program. **LART-4940 Senior Research Methodology**—Fa, Sp **1 hour**

This course prepares students for the senior capstone project and guides them through the completion of their capstone proposal. *Prerequisites: LART-1000 Introduction to Liberal Arts; permission of instructor.*

LART-4950 Senior Project-Fa, Sp

2 hours

Students select a topic of interest and then research and write a paper under the direction of a research mentor. Students present findings before faculty and peers. *Prerequisites: LART-4940 Senior Research Methodology; acceptance in the B.A. of Liberal Arts degree program and senior status.*

Department of Kinesiology and Allied Heath Course Descriptions

Allied Health (ALHL)

ALHL-1000

1 hour

Introduction to the Allied Health Professions-Fa

Introductory course for students planning career involvement in health and health-related professions. The students will be introduced to health careers by providing descriptions of jobs, the educational and legal requirements, the work environment, and additional information about specific fields.

ALHL-2000 Medical Terminology-Fa, Sp

1 hours

An online self-paced program designed to familiarize students with vocabulary indigenous to the medical profession; including terms of anatomic/physiologic features, medical diagnosis, procedures and therapies. Credit/no credit. *Prerequisite: GBIO-2010 Human Anatomy and Physiology I.*

ALHL-3940 Professional Development-Fa 1 hour

This course is designed to assist students in acquiring an in-depth understanding of requirements for entry-level graduate programs in their chosen discipline, and the credentialing process for their chosen profession. Students will be introduced to the central application procedures and requirements for CASPA, PTCAS, and OTCAS.

ALHL-4950 Allied Health Seminar I-Fa

1 hour

1 hour

This course is designed to assist the senior pre-health professional student for admissions interviews, enhance their understanding of their chosen professions, and guide in a continued development of the capstone project they began in EXSC-4600 Research in Exercise Science. *Prerequisite: ALHL-3940 Professional Development*

ALHL-4960 Allied Health Seminar II-Sp

This course is designed to guide students in the finalization of their capstone project and its presentation before peers and faculty. Students are also encouraged to collaborate with practicing health professionals in their intended profession to seek their advice and counsel. *Prerequisite: ALHL-3950 Allied Health Seminar I* (Fee: \$25)

Athletic Training (ATRN)

ATRN-1300 Emergency Care-Fa, Sp

3 hours

The American Red Cross Emergency Preparedness certificate may be granted at the end of this course. (Fee: \$100)

ATRN-1500 Introduction to Athletic Training-Fa, Sp 1 hou

This course will introduce the basic concepts of the profession of athletic training. Emphasis will be placed on the history of the profession as well as the core domains of athletic training.

ATRN-1550 Basic Athletic Training-Sp

3 hours

3 hours

An overview of the allied health profession known as athletic training. This course focuses on prevention, management, and rehabilitation of sport-related injuries. Relevant topics include physical conditioning, evaluation, injury cycle, and superficial modalities. (Fee: \$50)

ATRN-2560 Lower Body Injury Management–Fa

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

ATRN-2570 Upper Body Injury Management-Sp 3 hours

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

ATRN-2650 Therapeutic Exercise—Sp

Management of injuries from the subacute phase through return to participation. Based on principles of biomechanics with emphasis on strength, flexibility, proprioception, endurance, and agility. *Prerequisites: ATRN-1550 Basic Athletic Training or permission of instructor.*

ATRN-2901 Clinical I-Fa

2 hours

3 hours

This course focuses on the application of learned principles and athletic training clinical skills. This course includes implementation and practice of specific clinical skills from the previous year to facilitate comprehensive learning. Athletic training students will be supervised and given the opportunity to practice learned skills in the clinical setting. Only for athletic training students wishing to matriculate in the athletic training education program. *Prerequisite: ATRN-1500 Introduction to Athletic Training; ATRN-1550 Basic Athletic Training.* (Fee: \$50)

ATRN-2902 Clinical II-Sp

2 hours

This course focuses on the application of learned principles and athletic training clinical skills. This course includes implementation and practice of specific clinical skills from the previous year to facilitate comprehensive learning. Athletic training students will be supervised and given the opportunity to practice learned skills in the clinical setting. Only for athletic training students wishing to matriculate in the athletic training education program. *Prerequisite: ATRN-1500 Introduction to Athletic Training; ATRN-1550 Basic Athletic Training.* (Fee: \$50)

ATRN-3550

3 hours

Organization and Administration in Athletic Training-Fa

Management of the athletic training program and facility at all levels of sport. Topics include budgets, policies, design, record-keeping, and legal aspects of athletic training.

ATRN-3660 Therapeutic Modalities-Fa

3 hours

An overview of the modalities used in athletic training including thermal agents, electrical agents, and mechanical modalities. Prerequisite: ATRN-1550 Basic Athletic Training or permission of the instructor. (Fee: \$35)

ATRN-3770 Pharmacology-Sp

3 hours

A study of the medications used to treat athletic injuries. Focuses on both prescription and non-prescription medications used in the athletic training profession.

ATRN-3903 Clinical III-Fa

2 hours

A practicum course that allows the student to demonstrate mastery of clinical proficiency by applying course content to the actual practice of athletic training. Students will be assigned to a clinical rotation site where they will be supervised by a preceptor and assist the allied health care professional with providing services. Students are responsible for their own transportation. *Prerequisites: ATRN-2560 Lower Body Injury Management; ATRN-2570 Upper Body Injury Management.* (Fee: \$50)

ATRN-3904 Clinical IV-Sp

2 hours

A practicum course that allows the student to demonstrate mastery of clinical proficiency by applying course content to the actual practice of athletic training. Students will be assigned to a clinical rotation site where they will be supervised by a preceptor and assist the allied health care professional with providing services. Students are responsible for their own transportation. *Prerequisites: ATRN-3903 Clinical III.* (Fee: \$175)

ATRN-4560 General Medical Issues-Fa

3 hou

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

ATRN-4610 Issues in Athletic Training-Sp

1 hour

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

ATRN-4850

1-3 hours

Independent Study in Athletic Training-Fa, Sp

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

ATRN-4905 Clinical V–Fa
A practicum course that allows the student to demonstrate mastery of clinical proficiency by applying course content to the

mastery of clinical proficiency by applying course content to the actual practice of athletic training. Students will be assigned to a clinical rotation site where they will be supervised by a preceptor and assist the allied health care professional with providing services. Students are responsible for their own transportation. *Prerequisites: ATRN-3904 Clinical IV.* (Fee: \$50)

ATRN-4906 Clinical VI-Sp

2 hours

A practicum course that allows the student to demonstrate mastery of clinical proficiency by applying course content to the actual practice of athletic training. Students will be assigned to a clinical rotation site where they will be supervised by a preceptor and assist the allied health care professional with providing services. Students are responsible for their own transportation. Capstone Course. *Prerequisites: ATRN-4905 Clinical V.* (Fee: \$175)

Coaching (CCHG)

CCHG-3670 Fundamentals of Coaching-Fa

3 hours

Overview of the philosophy, psychology, organization, and general responsibilities of an athletic coach. Knowledge of motor learning and development and an overview of the organizational fundamentals of coaching for all the major sports. (even years)

CCHG-3680 Scientific Basis of Coaching-Fa

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. Prerequisites: CCHG-3670 Fundamentals of Coaching; CCHG-37XX Coaching; junior year status or permission of the instructor.

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.*

Exercise and Sport Science (ESS)

ESS-1350

2 hours

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: \$35)

ESS-1550 Athletic Training Essentials—Fa 2 hours

Principles of prevention, recognition, management, and rehabilitation of athletic injuries are presented for the student anticipating professional employment as a supervisor of individuals engaged in recreation and sport activities. (Fee: \$20)

ESS-2380 Motor Learning and Development-Sp 3 hours

A study of the stages in motor development and the factors affecting the acquisition of motor skills and learning as it relates to motor skill acquisition. The course provides cognitive and psychomotor knowledge of fundamental locomotor, non-locomotor, and manipulative motor skills.

ESS-3800 Sport Psychology–Fa 3 hours

Surveys the concepts and issues related to the human psyche in the context of sports and from a biblical perspective. Prerequisite: PYCH-1600 General Psychology, junior status, or permission of instructor.

ESS-3880 1–3 hours

Special Topics in Exercise and Sport Science

Investigation of special topics in exercise science that have intrinsic worth and engage student interest. *Prerequisite:* permission of instructor.

ESS-3890 5 hours

Human Anatomy and Physiology for the Physical Educator–Fa

This course is designed to be a study of the structure and function of the human body from a Christian theistic perspective with particular emphasis on applications and understanding for physical educators. *Prerequisite: GBIO-1000 Principles of Biology.* (Fee: \$25)

ESS-3900 Physiology of Exercise—Sp 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 I or ESS-3890 Human Anatomy and Physiology for the Physical Educator. (Fee: \$25)

ESS-3920 Biomechanics-Fa, Sp

Application of the facts and principles of basic physics to body movement, sports performance, and teaching of physical education skills. (Fee: \$25)

ESS-3940 Structural Kinesiology–Fa, Sp 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 I or ESS-3890 Human Anatomy and Physiology for the Physical Educator.* (Fee: \$25)

ESS-4850 1–3 hours

Independent Study in Exercise and Sport Science–Fa, Sp Independent study in the area of exercise and sport science. Prerequisite: Departmental approval is required.

Exercise and Sport Science Elective (ESSE)

ESSE-1350 Foundations of Sport Ministry-Sp 3 hours

This introductory course will give an overview of sport ministry. It will explore the breadth of such a ministry as it attempts to establish a Biblical base for sports evangelism. It will also attempt to demonstrate the balance of a spirit-filled life and the impact it can have in reaching the world with the message of Christ through sports. (even years)

ESSE-2100 Wilderness Ministry-Su

3 hours

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. (Fee: \$340)

ESSE-2810 Introduction to Camping-Sp 2 hours

The development and scope of camping including philosophies of centralized and decentralized camping, standards, administration, and basic campcraft skills. Special arrangement only. (Fee: \$40) (even years)

ESSE-2830 Recreational Leadership—Sp 2 hours

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

ESSE-3100 Strength and Conditioning-Sp 3 hours

This course includes the study of the varied aspects of strength training in a variety of sports. In addition to learning and practicing strength training techniques, students will design a conditioning program for preseason, in-season, off-season, and recovery modules. *Prerequisites: GBIO-1000 Principles of Biology, BIO-1110 Introduction to Biology, or permission of the instructor.*

ESSE-4850 Independent Study in Sport Ministry 1–3 hours

Independent study in the area of Sport Ministry by students pursuing the Sport Ministry minor. *Prerequisites: Departmental approval is required.*

Exercise Science (EXSC)

EXSC-2000 Worksite Observation-Fa, Sp, Su

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-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. Prerequisite: EXSC-2000 Worksite Observation.

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. Prerequisite: EXSC-2000 Worksite Observation.

EXSC-3810 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:* Junior status or permission of the instructor.

EXSC-3860 Basic Exercise Testing—Fa 4 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 certified exercise physiologist certification. *Prerequisite: ESS-3900 Physiology of Exercise; GMTH-1020 College Algebra.* (Fee:\$75)

EXSC-3870 Basic Exercise Prescription—Sp 4 hours

This course stresses the scientific foundations of conditioning with specific attention to exercise programming using the components of frequency, duration, intensity, mode, and progression, for apparently healthy individuals. The content is consistent with the skills necessary to prepare students for the American College of Sports Medicine certified exercise physiologist certification. *Prerequisite: EXSC-3860 Basic Exercise Testing.* (Fee:\$75)

EXSC-4600 Research 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-4700 Senior Research—Fa 3 hours

Students will work with a faculty mentor to conduct a research project, write a paper, and present the project for peers and faculty. The opportunity to present at conferences and/or publish the paper exists for those interested. *Prerequisite: EXSC-4600 Research in Exercise Science.* (Fee: \$35)

EXSC-4850 1–3 hours

Independent Study in Exercise Science-Fa, Sp

Independent study in the area of exercise science by students pursuing the exercise science major. *Prerequisite: Departmental approval is required.*

EXSC-4880 3 hours

Exercise Testing and Prescription for Special Populations–Fa

This course will prepare exercise science students to do exercise testing and prescriptions for individuals who are either acutely or chronically distinct from the "apparently not at risk" adult population. These include individuals who are children, elderly, or pregnant, as well as those who have acute or chronic illness or disease conditions that might affect the testing protocol or details of the exercise prescription. *Prerequisites: EXSC-3860 Basic Exercise Testing; EXSC-3870 Basic Exercise Prescription.* (Fee: \$75)

EXSC-4990 Internship in Exercise Science-Fa, Sp 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.*

Multi-Age Health Education (MAHE)

MAHE-3030 Nutrition-Fa

3 hours

A study of the science of nutrition, together with the study of eating habit formation and modification for optimal wellness, presented from a Christian perspective.

MAHE-3070 Current Issues in Health-Sp

1 hour

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

MAHE-3100 Drug Education—Sp

3 hours

Students will investigate the physical, social, emotional, intellectual, and spiritual factors influencing consumer health behavior with specific application to use/misuse of dietary supplements and herbal preparations, prescription drugs, overthe-counter drugs, alcohol, stimulants, opiates, hallucinogens, and steroids.

MAHE-3130 School Health Program—Sp 3 hours

Analysis of the scope of the school health program, including health services, healthful school living, and health instruction.

MAHE-4610 Teaching Health-Fa

5 hou

The teacher's role in comprehensive school health education including an introduction to the health status of youth, at-risk students, objectives from Healthy People 2020, components of comprehensive school health education, the role of the teacher in school health services, and special health concerns of today's children and youth. As well, curriculum review, behavioral objectives, life skills, scope and sequence of learning, teaching strategies, responsible decision-making, resistance skills, health behavior contracts, health resources, student-learner evaluation, and assessment concepts and procedures will be presented. *Prerequisite: admission to the Teacher Education Program.* (Odd years)

MAHE-4850 1–3 hours

Independent Study in Health Education-Fa, Sp

Independent study in the area of health education by students pursuing multi-age health education teaching licensure or a health promotion minor. *Departmental approval is required.*

Multi-Age Physical Education (MAPE)

MAPE-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

1-3 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: \$25)

MAPE-2210 Individual and Dual Sports II-Sp 2 hours

Theory and practice in badminton, racquetball, table tennis, and track and field with attention to various teaching methods, skills, psychomotor skill development, and knowledge in rules, terminology, strategies, safety, and etiquette. (Fee: \$25)

MAPE-3600 5 hours

Physical Education in the Elementary School-Sp

An overview of the place of physical education in the elementary school curriculum with an emphasis on the study of current program content design, teaching techniques, assessment concepts and procedures, as well as modifying activities for the purpose of inclusion for the physically challenged. NASPE standards aligned with assessment and the analysis of student learning are a vital part of this course.

MAPE-4500 2 hours

Curriculum Development in Physical Education-Fa

Overview of the curriculum process in physical education, specifically giving attention to the theoretical base, process of curriculum design, and curriculum development for elementary through high school educational programs. Prerequisite: MAPE-3600 Physical Education in the Elementary School; corequisite: MAPE-4950 Methods of Secondary Physical Education

MAPE-4850 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 within the MAHPE and MAPE majors in conjunction with MAPE-4950 Methods of Teaching Secondary Physical Education and MAPE-4970 Field Experience in Physical Education-Special Populations. Prerequisite: admission to the Teacher Education Program. Credit/no credit. (Fee: \$100)

MAPE-4970 2 hours

Field Experience in Physical Education-Special $\textbf{Populations} \text{--} Fa, \, Sp$

An adapted physical education teaching field experience taken in conjunction with MAPE-4950 and MAPE 4960 that seeks to provide the opportunity for application of adapted physical education content and theory studied in MAPE-4950 Methods of Teaching Physical Education. Prerequisites: admission to the Teacher Education Program; MAPE-4950 Methods of Teaching Physical Education; MAPE-4960 Field Experience. (Fee: \$35)

Physical Education Activity Courses (PEAX)

PEA-1240 through PEA_-2100 Courses

1-2 hours each

Each course is designed to develop knowledge and skills in the respective activity area. Course requirements include examinations covering the activity subject, skills tests, class participation, and aerobics requirements. Grading options include letter grades or credit/no credit. 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 (Fee: \$15)-Fa, Sp | 1 hour |
|---|--------|
| PEAE-1300 Contemporary Aerobics: Women-Fa, 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 |
| 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 | 1 hour |
| PEAS-1120 Tumbling: Coed-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 |
| PEAS-1700 Swimming I – Beginners: Coed-Fa | 1 hour |
| Designed for nonswimmers or swimmers with minimal | |

Designed for nonswimmers or swimmers with minimal swimming background; introduces and develops three strokes: front crawl, back crawl, and elementary back. (Fee: \$60) 1 hour

PEAS-1720 Swimming II - Intermediate: Coed-Fa

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: \$60)

PEAS-1730 Swimming III - Advanced: Coed-Sp 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: \$60)

PEAS-1740 Lifequarding 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)

Physical Education Fitness (PEF)

PEF-1990

2 hours

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. (Fee: \$5)

Military Science Course Descriptions

Air Force ROTC (AES)

Air Force ROTC courses are offered through Cedarville University in collaboration with the Air Force ROTC detachment located at Wright State University. While Air Force ROTC courses are included in the Cedarville University course schedule for registration purposes, leadership laboratories and classes for junior and senior years are conducted on the campus of Wright State University. Cedarville University provides transportation for off-site classes.

AES-1210,1220 1 hour/sem Foundations of the United States Force I (Fa) and II (Sp)

(AS 100), These courses are survey courses designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the Air Force.

AES-1211/1221 0 hours

General Military Course (GMC) Leadership Laboratory–Fa, Sp

This lab provides an opportunity for students to apply Air Force procedures, techniques, and knowledge. Students will learn the Air Force organizational structure as well as customs and courtesies. GMC cadets will also develop their followership and teamwork skills in a cadet-led, cadre-supervised lab environment. Taken concurrently with 1000-level AES courses. Credit/no credit.

AES-2210,2220 1 hour/sem

Evolution of USAF Air and Space Power I (Fa) and II (Sp)

(AS 200) These courses feature topics on Air Force heritage and leaders; introduction to air power through examination of the Air Force Core Functions; and continued application of communication skills. Its purpose is to instill an appreciation of the development and employment of air power and to motivate sophomore students to transition from AFROTC cadet to AFROTC officer candidate.

AES-2211/2221 0 hours

Field Training Preparation Leadership Lab (FTP)-Fa, Sp

This lab further develops skills and concepts introduced in the GMC Leadership Laboratory. Students are prepared mentally and physically for the demanding requirements of the upcoming Field Training summer program. Training is cadet-led, where the students will display their ability to apply Air Force concepts and procedures. Taken concurrently with 2000-level AES courses. Credit/no credit.

AES-2500 Extended GMC Leadership Laboratory 0 hours

This course is for cadets who have met the requirements of GMC but have not yet completed field training.

AES-3310,3320 3 hours/sem United States Air(Force Leadership Studies I (Fa) and II (Sp)

(AS 300) These courses teach cadets advanced skills and knowledge in management and leadership. Special emphasis is placed on enhancing leadership skills. Cadets have an opportunity to try out these leadership and management techniques in a supervised environment as juniors and seniors.

AES-3311/3321 0 hours

Intermediate Cadet Leadership Laboratory (ICL)-Fa, Sp

The (ICL) lab builds the foundation of leadership skills required as an Air Force Officer. Cadets apply leadership/management concepts learned in Field Training and previous aerospace studies classes and labs to assist in training the GMC cadets. Taken concurrently with 3000-level AES courses. Credit/no credit.

AES-4310,4320 3 hours/sem National Security Affairs/Preparation for Active Duty I (Fa) and II (Sp)

(AS 400) These courses are designed for college seniors and gives them the foundation to understand their role as military officers in American society. It is an overview of the complex social and political issues facing the military profession and requires a measure of sophistication commensurate with the senior college level.

AES-4311/4321 0 hours

Senior Cadet Leadership (SCL) Laboratory—Fa, Sp
This lab prepares students for progression into active duty life.
As in the ICL lab, students take leadership roles in execution of leadership labs for the cadet wing. Students hone leadership fundamentals learned in previous courses and labs to a level commensurate to entry into the active duty Air Force. Taken concurrently with 4000-level AES courses. Credit/no credit.

AES-4500 Extended POC Leadership Laboratory 0 hours

This course is for cadets who have met all requirements for Air Force ROTC but have not yet completed their baccalaureate degree.

Physical Training sessions are twice a week, see instructor for details. Physical training is not an official class and registration is not necessary; however participation is required.

Army ROTC (MIL)

Army ROTC courses are offered through Cedarville University in collaboration with the Army ROTC detachment located at Central State University. While Army ROTC courses are included in the Cedarville University course schedule for registration purposes, all classes, labs, and physical training are conducted on the campus of Central State University. Cedarville University provides transportation for off-site classes.

MIL-1000 Leadership Lab I

U nours ith 1000-level

Applied Army ROTC training. Taken concurrently with 1000-level MIL courses.

MIL-1010,1020 Military Science I 2 hours/sem

Introduction to the history, role, and organization of the Army and ROTC, as well as the U.S. Army Reserve and U.S. Army National Guard, and the available career options. Introduces officership, military customs and traditions, map reading, land navigation, field training, first-aid procedures, and physical fitness training. Familiarize with rank structure, drill and ceremony, military courtesies, weapons, marksmanship, and communications equipment. Discuss styles and fundamentals of leadership and develop leadership skills.

MIL-2000 Leadership Lab II

0 hours

Applied Army ROTC training. Taken concurrently with 2000-level MIL courses.

MIL-2010,2020 Military Science II

2 hours/sem

Course of study includes emergency first-aid procedures, field survival practices, physical fitness, orienteering, and small-unit leadership training. Explores the various career management fields within the Army. Students will begin to receive leadership assignments and responsibility within the cadet battalion. Introduction to advanced course of study.

MIL-3000 Leadership Lab III

0 hours

Applied Army ROTC training. Taken concurrently with 3000-level MIL courses.

MIL-3010,3020 Military Science III

3 hours/sem

The junior year of military science is completely dedicated to developing leadership skills and preparing students for the sixweek Advanced Camp in the summer of the junior year. Subjects covered are drill, leadership, marksmanship training, squad and team tactics with leadership exercises and advanced navigation training on day and night courses. Students learn to inspect soldiers' equipment, draft and issue orders, and plan and conduct training as a small-unit leader. *Prerequisite: approval of professor of military science*.

MIL-4000 Leadership Lab IV

0 hours

Applied Army ROTC training. Taken concurrently with 4000-level MIL courses.

MIL-4010,4020 Military Science IV

3 hours/sem

The senior year of military science provides senior cadets with advanced managerial leadership skills. Army staff procedures and functions are taught. These staff skills are put into practice through the assignment of seniors to major leadership positions within the cadet battalion. Seniors learn to command, lead, manage, plan, and supervise as they prepare for commissioning as officers in the United States Army. Senior students will receive instruction on military professionalism and ethics. *Prerequisite: approval of professor of military science*.

Department of Music and Worship Course Descriptions

Conducting (CDMU)

CDMU-2600 Introduction to Conducting-Fa

2 hours

The basic technique of the conductor's art: score reading, conducting patterns, interpreting, cueing, rehearsal procedures, and stylistic conceptualization. *Prerequisite: THMU-1210 Music Theory I or permission of instructor.* (Fee: \$20)

CDMU-3610 Choral Conducting—Sp

2 hours

Concentrated focus upon the choral conductor's stylistic gestures and verbal communication as they impact ensemble intonation, diction, tone, blend, and balance. This course emphasizes diagnostic listening, problem solving, observation of professional conductors, the conducting of larger choral/instrumental works, and student rehearsal of various music department choral ensembles. *Prerequisite: CDMU-2600 Introduction to Conducting or permission of instructor.* (Fee: \$20)

CDMU-3620 Instrumental Conducting-Sp 2 hours

Designed to take the student beyond basic conducting techniques and present the special characteristics of instrumental conducting. The student will develop skills in rehearsal technique and score analysis while learning to conceptualize musical fundamentals such as tone, intonation, balance, rhythmic ensemble, and interpretation. *Prerequisite: CDMU-2600 Introduction to Conducting or permission of 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

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.*

Church Music (CHMU)

CHMU-2100 Church Music Seminar-Fa, Sp

0 hours

A once-per-semester seminar designed to expose students to various aspects of church music ministry. The seminar may take the form of a lecture or masterclass. Crosslisted with WSHP-2100 Worship Forum. *Prerequisite: enrollment as a church music major or minor.*

CHMU-2200 Field Experience-Fa, Sp

1 hour

3 hours

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-3630 Administering Church Music I-Sp

Training in the organization, administration, planning, and presentation of vocal music in worship. Included in the course is a study of the administrative, organizational, and pedagogical methods for teaching and training children, youth, and adults, along with an extensive examination of music literature and curricula appropriate to different age groups. (even years)

CHMU-3640 Administering Church Music II-Sp 3 hours

Training in the organization, administration, planning, and presentation of instrumental music in worship. Included in the course is a study of the development of small wind and brass ensembles, large ensembles, repertoire and the function of ensembles in worship and Christian education. (odd years)

CHMU-4900 Church Music Internship

9 hours

Intensive field experience in a local church. Place of service is determined by student interest, recommendation of supervising faculty, availability of local church, and supervising minister of music. Students must apply for internships and receive endorsement from the advisor and the Chair of the Department of Music 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.

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-2200 Music Literature: Special Topics 1–2 hours

A survey of the history and literature for the specified instrument.

CLMU-2210 Brass Literature-Fa

1 hour

1 hour

A survey of brass literature covering all historical periods but emphasizing the chamber music genre. (even years)

CLMU-2220 Percussion Literature-Sp

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

HLMU-2100

The student will assemble and present materials, that demonstrate performance achievement and professional awareness. The portfolio may include documentation of performances, masterclass, and repertoire.

CLMU-2800 Introduction to Music Composition—Fa 2 hours

Designed to introduce the student to the foundational concepts of musical composition. Students will gain facility with the tools of composition and will begin composing in various styles.

CLMU-2850 Composition Seminar-Fa, Sp 0 hours

A once-per-semester seminar designed to expose students to aspects of the compositional art that are not part of general course material. The seminar may take the form of a lecture, masterclass, or recital.

CLMU-2860 Composition Portfolio-Fa 0 hours

Designed as an opportunity for students to receive guidance and feedback on preparing, assembling, and presenting a composition portfolio. The portfolio may include documentation of performances, masterclasses, and completed compositions. **CLMU-3110 Choral Repertoire**-Fa

This course exposes the student to exemplary repertoire for choirs of all levels and voicings. Most class sessions are devoted to sight-reading and discussing a large number of choral pieces as well as evaluative listening to recordings. Open to all music majors, minors, and to all CU ensemble members. For music majors, it is recommended that this course be taken concurrently with CDMU-3630 Choral Methods.

CLMU-3120 Vocal Literature-Sp 3 hours

Survey of literature for the solo voice from the onset of Thoroughbass to the 21st century. Includes major repertoire in Italian, French, English, and German, along with important works in other languages. Analysis of song and aria scores will be complemented by recordings and live performance. (even years) CLMU-3130 Opera and Oratorio literature-Sp

Survey of opera and oratorio literature from Monteverdi's Orfeo and Carissimi's Jephte to works of the 21st centry. Analysis of scores will be complemented by recordings, live performance, libretti studies, and historical background. Crosslisted with HLMU.

CLMU-3410 Traditional Irish Music-Fa

1 hour

This course introduces students to the practice of traditional Irish music through study of primary tune forms, experience of the social context of Irish music-making, and acquaintance with leading performers within the tradition. The class culminates in an Irish music festival held at a local coffee shop. Crosslisted with HLMU-3410 Traditional Irish Music. Prerequisite: permission of instructor. (Fee: \$30)

General Music (GMUS)

GMUS-1000 Music Philosophy and Aesthetics-Fa

Philosophical and scriptural foundation for the Christian concepts of musical creativity, musical worship, and stewardship.

Understanding the unique teacher-student relationship in music. A first attempt at codifying a coherent, personal, Christian philosophy of music.

GMUS-1030 Recital and Program Attendance-Fa, Sp 0 hours

Music majors and minors must attend a prescribed number of programs and recitals each semester. Majors must enroll each semester. For a music minor, students must enroll for two consecutive semesters.

GMUS-4980 Special Topics — General Music-Fa, Sp1-3 hours Study of selected topics in music.

Music History (HLMU)

2 hours

Jazz History: Music of the Multi-Culture-Fa

Survey of jazz as an American art form, as a representative of both Western and non-Western practices, that now make up our American multi-culture, and as the primary vehicle for the realization of improvisation within that multi-culture. Acquaints the student of music with jazz styles and the major figures in jazz history and assists in the discovery of jazz influence upon all other American music, both classical and popular. Prerequisites: THMU-1220 Music Theory II; THMU-1320 Aural Skills II. (even years)

HLMU-2310 Introduction to Music Literature-Sp 3 hours Study of music by genre and chronology. Focuses 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-3130 Opera and Oratorio Literature-Sp 3 hours

Survey of opera and oratorio literature from Monteverdi's Orfeo and Carissimi's Jephte to works of the 21st centry. Analysis of scores will be complemented by recordings, live performance, libretti studies, and historical background. (odd years) Crosslisted with CLMU.

HLMU-3310 Music History I-Fa

3 hours

Study of the music of Western civilization traced from its primitive sources and giving special attention to Medieval, Renaissance, Baroque, and classical music as demonstrated through the vocal and instrumental music of composers from each period. Prerequisites: HLMU-2310 Introduction to Music Literature; THMU-2210 Music Theory III; permission of instructor.

HLMU-3320 Music History II-Sp 3 hours

Study of the music of Western civilization traced from 1750 to the present time, giving special attention to romantic, 20th century. and contemporary music as demonstrated through the vocal and instrumental music of composers from each period. Prerequisites: HLMU-2310 Introduction to Music Literature; THMU-2210 Music Theory III; permission of instructor.

HLMU-3400 Global Music-Fa

3 hours

A socio-anthropological approach to the study of the world's music. Surveying music of cultures of Africa, the Americas, and Asia as well as European folk music. Music traditions are studied from a perspective that emphasizes music as an integral part of society and culture, helping students discover the influence of culture on music, and the subsequent role of music within the culture. (Fee: \$50) (odd years)

HLMU-3410 Traditional Irish Music—Fa

2 hours

This course introduces students to the practice of traditional Irish music through study of primary tune forms, experience of the social context of Irish music-making, and acquaintance with leading performers within the tradition. The class culminates in an Irish music festival held at a local coffee shop. Crosslisted with CLMU-3410 Traditional Irish Music. *Prerequisite: permission of instructor.* (Fee: \$30)

HLMU-3420 Music of the Church-Fa

houre

An in-depth review of the past, present, and future of music in the church and its use in worship. The course provides tools that students can use to evaluate the quality and usefulness of various musical styles within the context of different worship traditions. (odd years)

HLMU-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 and II.*

HLMU-4980 Special Topics — Music History-Fa, Sp 1-3 hours

Study of selected topics in music. *Prerequisites: HLMU-3310 Music History I and HLMU-3320 Music History II or permission of instructor.*

Humanities (HUM)

HUM-1400 Introduction to the Humanities–Fa, Sp **3 hours**

Historical study of the relationship of music, art, and literature to the dominant cultural, religious, and philosophical trends and their relationship to Christian theism.

HUM-2430 Enjoyment of Music-Fa 3 hours

This course is designed to present a study of music by genre and chronology. It will focus on the art traditions in music. Students will become familiar with a wide variety of music literature and will learn to listen analytically. The primary goal will be to bring students as far as possible along the road to being music lovers. (Fee: \$50) (even years)

HUM-4980 Special Topics – Humanities–Fa, Sp **1–3 hours** Study of selected topics in humanities.

Keyboard Pedagogy (KPMU)

KPMU-2010 Keyboard Pedagogy I-Fa

3 hours

Study of techniques and literature for the teaching of beginning and intermediate piano students both in private and class settings. Includes study of graded teaching materials and participation in a supervised teaching setting. *Prerequisites: THMU-1210, 1220 Music Theory I and II; THMU1310, 1320 Aural Skills I and II.*

KPMU-2020 Keyboard Pedagogy II-Sp

hours

Discussion of pedagogical problems involving intermediate students; evaluations of piano literature and investigation of specific aspects of piano pedagogy through readings and discussion. Survey of piano literature and its predecessors—clavichord, harpsichord, and pianoforte—from the early English virginal music to the present time. *Prerequisite: KPMU-2010 Keyboard Pedagogy I.*

KPMU-3110, 3120 Directed Teaching–Fa, Sp 1 hour each

Supervised teaching experience in a private or class format with beginning to intermediate-level piano students. *Prerequisites: KPMU-2010, 2020 Keyboard Pedagogy I and II.* (Fee: \$50)

KPMU-4110, 4120 Directed Teaching-Fa, Sp 2 hours each

Supervised teaching experience in a private or class format with beginning to intermediate-level piano students. *Prerequisites: KPMU-2010, 2020 Keyboard Pedagogy I and II.* (Fee: \$50)

KPMU-3150 Keyboard Pedagogy Seminar I–Fa 2 hou

Designed to develop critical and creative teaching approaches for students of varying personality and learning styles with application to theory, technique, and music concepts needed by primary and elementary-level piano students in both private and group settings. *Prerequisites: KPMU-2010,2020 Keyboard Pedagogy I and II.*

KPMU-3160 Keyboard Pedagogy Seminar II-Sp 2 hours

Survey of representative Baroque through 20th century literature for the advanced pre-college pianist. The course is enhanced with videos, required readings, and discussion relative to topics such as performance anxiety, technique, and performance style. *Prerequisites: KPMU-2010,2020 Keyboard Pedagogy I and II.*

KPMU-4150 Keyboard Pedagogy Seminar III-Fa 2 hours

Pedagogical methods and techniques using electronic studio in-class teaching. The course is enhanced with videos, required readings, and discussion relative to group teaching. *Prerequisites: KPMU-2010,2020 Keyboard Pedagogy I and II.*

KPMU-4160 Keyboard Pedagogy Seminar IV-Sp 2 hours

Continued application of various learning styles with application to developing musical performance in intermediate and advanced-level piano students in both private and group settings. The course also includes an introduction to business practices for the independent piano teacher.

Music Education (MUED)

MUED-1000 NAfME-Fa, Sp

0 hours

The National Association for Music Education exists to advance music education by encouraging the study and making of music by all. NAfME is the primary professional organization for music educators. The campus chapter provides informative seminars including a focus on Value Added Assessment along with service activities. NAfME offers music educators a connection to the professional world of music education and increased understanding of the role of NAfME in the field of music teaching. All music education majors are required to enroll in this course as part of their professional development and career preparation. A minimum of 8 semesters of satisfactory participation is required. (Fee: \$30)

MUED-2730 2 hours

Wind and Percussion Methods for Music Educators-Sp

Class instruction in basic playing and teaching of all band instruments. Required for the vocal major pursuing the Bachelor of Music Education degree and instrumental performance majors; open to others by permission of the instructor. (Fee: \$40) (even years)

MUED-2870 Brass Methods for Music Educators–Fa **2 hours**

Class instruction in basic playing and teaching of the brass instruments – trumpet, horn, trombone, baritone, tuba. (Fee: \$40) (even years)

MUED-2900 Guitar Methods for Music Educators-Sp 1 hour

Class instruction in basic playing and teaching of guitar.

Required of music education majors pursuing the choral track.

Open to other students by permission of instructor. (Fee: \$40)

MUED-2910 2 hou

Woodwind Methods for Music Educators-Sp

Class instruction in basic playing and teaching of the woodwind instruments – flute, oboe, clarinet, saxophone, and bassoon. (Fee: \$40) (even years)

MUED-2930 String Methods for Music Educators-Fa 2 hours

Class instruction in basic playing and teaching of the string instruments – violin, viola, cello, string bass. (Fee: \$40) (odd years)

MUED-2950 2 hours

Percussion Methods for Music Educators-Sp

Class instruction in basic techniques, playing and teaching of the snare drum, tympani, and other tuned percussion instruments. (Fee: \$40) (odd years)

MUED-3710 Music for Early Childhood–Fa 3 hours

Music literature and teaching aids for children, including basic music theory, development of skills on keyboard, classroom instruments, and voice; music in the curriculum; and teaching music concepts. (Fee: \$30)

MUED-3720 Music for Adolescent/Young Adults-Sp 3 hours

The history of and basis for music in the secondary curriculum, administration of the music program, methods of teaching music in groups, and sources of materials for instruction. (Fee: \$30)

MUED-3730 Vocal Pedagogy-Fa

Philosophy, objectives, and techniques of offering vocal instruction at all levels with emphasis on vocal production and pedagogical approaches. *Prerequisite: CLMU-1860 Voice Class or completion of sophomore vocal review.*

MUED-3750 Instrumental Pedagogy-Fa 2 hours

The study of techniques and literature for the teaching of wind, percussion, brass, and string students in the private studio. Investigation of studio teaching through readings, interaction and discussion. *Prerequisite: PLMU 1000 and 2000-levels.* (odd years) **MUED-3910 Instrumental Administration**—Fa **3 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)

MUED-4990

1-3 hours

Independent Study in Music Education

Independent and intensive study in a particular area of music education for individual music education majors who demonstrate special interests and ability.

Music Performance (PFMU)

PFMU-3100 Piano Ensemble-Fa, Sp

0-1 hours

2 hours

The Piano Ensemble is an organization of advanced pianists that meets weekly to perform duet and duo piano literature. The Ensemble performs publicly on a regular basis.

PFMU-3210 Jubilate—Fa, Sp 0–1 hours

Ministry team of 40 select voices; open to all students by audition. Repertoire is selected from a wide spectrum of musical styles in evangelical traditions. Meets twice a week. Annual tour spring semester.

PFMU-3220 Worship Ensemble–Fa, Sp 0–1 hours

Ministry team of 8–10 singers, instrumentalists, and technicians; open to all students by audition. Repertoire is contemporary Christian and praise and worship music. Group will tour on behalf of the University throughout the school year and during breaks. *Prerequisite: admission by audition only.*

PFMU-3650 Chamber Ensemble-Fa, Sp

0-1 hours

The performance of representative literature in a variety of instrumental and vocal settings. Groups are normally student-formed and faculty-led and can be either homogenous (all strings, all brass, etc.) or heterogeneous. NOTE: An instructor must be designated for a group before any of its members register for this course. *Prerequisites: permission of instructor; approval of the 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 hour

The coaching, staging, and performance of operatic literature in scenes, recitals, or full-scale productions.

PFMU-3880 Brass Choir-Fa, Sp

0-1 hours

The Brass Choir of select instrumentation consists of 20 to 25 members. It serves the University and its constituency by performing concerts featuring the highest quality brass choir literature. Major concerts are performed each semester.

PFMU-3940 University Orchestra-Fa, Sp

0-1 hours

The Orchestra is composed of string, wind, brass, and percussion players selected by audition. The group performs challenging, high-quality literature in concerts on campus and has opportunities to minister in local churches.

PFMU-3970 Symphonic Band-Fa, Sp

0-1 hours

The Symphonic Band is composed of approximately 80 members, selected by audition. Performing quality band literature, the band has appeared before state and national conference audiences and in concert under the baton of such guest conductors as Jim Curnow, George Strombeck, and George Wilson. Several concerts are presented each year on campus, in churches, and in schools.

PFMU-3980 Jazz Band-Fa, Sp

0-1 hours

The Jazz Band has a membership of approximately 16 musicians, selected by audition. The group performs Big Band music and contemporary jazz standards. The band is active in both campus and off-campus activities.

Music Private Study (PLMU)

Private instruction for credit in piano, voice, guitar, orchestral and band instruments, and composition is available to all music majors. Students with majors outside of the Department of Music and Worship need special approval from the department Chair.

Credit in performance lessons is based on a minimum of six hours of practice and one half-hour lesson per week for one hour of credit. An audition is required for initial registration. Continued registration is based on satisfactory progress as determined each semester by the instructor. (Fees: private lesson fee \$300 and practice room fee \$100 per credit hour)

| PLMU-1000, 2000, 3000, 4000 Organ | 1-2 hours |
|--|-------------|
| PLMU-1100, 2100, 3100, 4100 Piano | 1-2 hours |
| PLMU-1200, 2200, 3200, 4200 Voice | 1-2 hours |
| PLMU-1300, 2300, 3300, 4300 Trumpet | 1-2 hours |
| PLMU-1310, 2310, 3310, 4310 Trombone/Baritone Ho | rn |
| , , | 1-2 hours |
| PLMU-1320, 2320, 3320, 4320 French Horn | 1-2 hours |
| PLMU-1330, 2330, 3330, 4330 Tuba | 1-2 hours |
| PLMU-1400, 2400, 3400, 4400 Clarinet | 1-2 hours |
| PLMU-1410, 2410, 3410, 4410 Flute | 1-2 hours |
| PLMU-1420, 2420, 3420, 4420 Saxophone | 1-2 hours |
| PLMU-1430, 2430, 3430, 4430 Oboe | 1-2 hours |
| PLMU-1440, 2440, 3440, 4440 Bassoon | 1-2 hours |
| PLMU-1500, 2500, 3500, 4500 Violin | 1-2 hours |
| PLMU-1510, 2510, 3510, 4510 Viola | 1-2 hours |
| PLMU-1520, 2520, 3520, 4520 Cello | 1-2 hours |
| PLMU-1530, 2530, 3530, 4530 Bass | 1-2 hours |
| PLMU-1550, 2550, 3550, 4550 Harp | 1-2 hours |
| PLMU-1600, 2600, 3600, 4600 Guitar | 1-2 hours |
| PLMU-1700, 2700, 3700, 4700 Percussion | 1-2 hours |
| PLMU-1800 Private Lessons in Composition-Fa, Sp | 1 hour |
| PLMU-1810, 2810, 3810, 4810 | 1-2 hours |
| Contemporary Piano-Fa, Sp | |
| Prerequisites: music or worship student, or instructor | r approval. |
| PLMU-1820, 2820, 3820, 4820 | 1-2 hours |
| Contemporary Voice-Fa, Sp | |

Prerequisites: music or worship student, or instructor approval.

PLMU-1830, 2830, 3830, 4830

1–2 hours

Contemporary Guitar-Fa, Sp

Prerequisites: music or worship student, or instructor approval.

PLMU-2800, 3800, 4800 Music Composition 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: \$50)

PLMU-3910 Junior Seminar-Sp 1 ho

Group preparation for Senior project capstone presentation.

Prerequisite: junior status.

PLMU-3920 Junior Composition Project–Fa, Sp 1 hour

The culminating project for juniors majoring in musical compositon. This project is akin to a half-recital and will consist of a substantial compositon for a large ensemble. *Prerequisite: junior status. Corequisite: PLMU-3800 Private Lessons in Composition.*

PLMU-4900 Senior Recital 1 hour

Music majors should register for this course the semester in which their recitals are to be presented. Capstone course. (Fee: \$50)

PLMU-4910 Senior Seminar–Fa, Sp 1 hour

One-on-one preparation for the senior project capstone presentation. *Prerequisite: PLMU-3910 Junior Seminar*

PLMU-4920 Senior Project—Sp 1 hour

The capstone project for the B.A. in Music degree. Students may register for this course at the same time as Senior Seminar. (Fee: \$75)

Music Theory (THMU)

THMU-1010 2 hours

Introduction to Music Theory and Aural Skills-Fa

An intensive study of the rudiments of music: notation, pitch, and rhythm. These elements will be explored with aural and written components. These credits may not be substituted for any other music course. (Fee: \$30)

THMU-1210 Music Theory I-Fa

A foundational study of the essential building blocks of music including chord analysis, harmony, voice leading, and form. Prerequisite: THMU-1010 Introduction to Theory or competency equivalency as shown by entrance examination. (Fee: \$30)

THMU-1220 Music Theory II-Sp

3 hours

A continuation of Theory I with an in-depth exploration of part-writing, seventh chords, and elementary chromaticism. *Prerequisite: THMU-1210 Music Theory I.* (Fee: \$30)

THMU-1250 Contemporary Musicianship I-Sp

This course is designed to help students understand the structure of contemporary music. The class will also continue to develop written and aural musicianship studied in Introduction to Music Theory and Aural Skills. *Prerequisites: THMU-1010 Introduction to Music Theory and Aural Skills.* (Fee: \$30)

THMU-1310 Aural Skills I–Fa 2 hours

Introduction to techniques of basic aural musicianship, including singing, recognizing, and dictating intervals and chords within the diatonic major and minor systems by "guide tone" numeric scale degree method. *Corequisite: THMU-1210 Music Theory I.*

THMU-1320 Aural Skills II-Sp 2 hours

A continuation of Aural Skills I with an in-depth exploration of melodic and harmonic dictation along with an introduction to the techniques of transcribing select popular music recordings by ear. *Prerequisite: THMU 1310 Aural Skills I.*

THMU-1500 Introduction to Music Technology-Fa 1 hour

An introductory study of the use of computers and synthesizers in the production of printed musical scores. All students are expected to complete this course during their first year of study since the skills acquired in the course are used throughout their academic curriculum.

THMU-2140 Functional Keyboard Skills-Fa

1 hour

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

THMU-2210 Music Theory III-Fa

3 hours

Critical study and analysis of the chromatic harmony, counterpoint and formal structure of 18th century music. Creative work in traditional compositional forms.

THMU-2220 Music Theory IV-Sp

3 hours

Critical study and analysis of the chromatic harmony and formal structure of 19th-century music. Analytical study of 20th-century compositional techniques, including impressionistic, serial, neoclassical, and electronic practices: creative work in contemporary styles.

THMU-2250 Contemporary Musicianship II-Fa 2 hours

This course is designed to help students understand the structure of contemporary music. The class will also continue to develop written and aural musicianship studied in Contemporary Musicianship I. *Prerequisites: THMU-1250 Contemporary Musicianship I.* (Fee: \$30)

THMU-2260 Contemporary Musicianship III-Sp 2 hours

This course is designed to help students understand the structure of contemporary music. The class will also continue to develop written and aural musicianship studied in Contemporary Musicianship II. Prerequisites: THMU 2250 Contemporary Musicianship II. (Fee: \$30)

THMU-2310 Aural Skills III–Fa 2 hours

Intermediate aural musicianship techniques: at-sight singing, melodic pattern recognition, and chord dictation within both diatonic and chromatic major and minor systems by including syncopated and irregular rhythmic patterns as well as four-voice harmonic dictation, including more advanced chromatic language. Prerequisite: THMU-1320 Aural Skills II. Corequisite: THMU-2210 Music Theory III.

3 hours

THMU-2320 Aural Skills IV-Sp

2 hours

Advanced aural musicianship techniques: at-sight singing, melodic pattern recognition, and chord dictation within both diatonic and chromatic major and minor systems. More advanced melodic, rhythmic, and harmonic dictation, including all tonal language, as well as some extended chromatic possibilities and introduction to the non-tonal tendencies of the 20th century. Prerequisite: THMU-2310 Aural Skills III. Corequisite: THMU-2220 Music Theory IV.

THMU-3120 Jazz Theory and Improvisation I–Fa 2 hours

This course will introduce students to basic concepts of jazz theory and improvisation. Material will include harmonic structure and appropriate scales choice for improvisation. Students will learn to improvise over jazz standards. *Prerequisites: THMU-2210 Music Theory III, THMU-2310 Aural Skills III, and permission of instructor*

THMU-3130 Jazz Theory and Improvisation II-Sp 2 hours

This course will introduce students to advanced concepts of jazz theory and improvisation. Material will include harmonic structure and appropriate scales choice for improvisation. Students will further develop the ability to improvise over jazz standards. *Prerequisites: THMU-2210 Music Theory III, THMU-2310 Aural Skills III, and permission of instructor*

THMU-4100 Counterpoint-Sp

3 hours

3 hours

A survey of polyphonic music from the 18th to the 21st centuries including the analysis and composition of species counterpoint examples, canon, a fugal exposition, and a modern composition. Students will especially focus upon contrapuntal techniques utilized in contemporary choral and instrumental music. *Prerequisite: THMU-2220 Music Theory IV or permission of instructor.* (odd years)

THMU-4110 Form and Analysis-Sp

The analysis of musical examples illustrating the primary structural concepts operative within compositions dating from 1600 to the present. Emphasis will be placed upon the relationship between musical form and performance. Using varied analytical techniques, students will particularly focus upon repertoire composed for their performance instrument. *Prerequisites: THMU-2220 Music Theory IV; THMU-2320 Aural Skills IV.* (even years)

THMU-4130 Orchestration-Fa 2 hours

Designed to develop skills in scoring music for various instrumental groups. *Prerequisite: THMU-2220 Music Theory IV.* (Fee: \$30) (odd years)

THMU-4140 Choral Arranging–Fa 2 hou

Study of arranging for the choral medium. Includes principles of arranging for children, youth, and adult choirs. Special attention given to arranging for large and small choral ensembles with a variety of forms of accompaniment. *Prerequisite: THMU-2220 Music Theory IV or permission of instructor.* (Fee: \$30) (even years)

THMU-4990 1–3 hours

Independent Study in Theory/Composition

Independent and intensive study in a particular area of music theory or composition for individual students who demonstrate special interests and ability. Repeatable up to three credits.

Music Technology (TYMU)

TYMU-1251 Music Technology I-Sp

3 hours

This course is a survey of music technology tools and techniques including an introduction to the digital audio workstation, digital audio editing, MIDI editing and programming, and virtual instruments. Prerequisites: THMU-1010 Introduction to Music Theory and Aural Skills or successful completion of the Music Theory Entrance Exam; or permission of the instructor. (Fee: \$45) (even years)

TYMU-2250 Music Technology II-Fa

3 hours

This course focuses on laptop recording and editing, giving students skills necessary to record and mix their own arrangements and compositions. Students will use a guerrilla recording approach to create singles and albums. *Prerequisites: TYMU-1251 Music Technology I; or permission of the instructor.* (Fee: \$45) (even years)

TYMU-2251 Music Technology III-Sp

3 hours

This course focuses on a variety of synthesis techniques using Logic Pro's various synthesizers as well as the software synthesizer, Omnisphere. Additionally, this course will introduce students to live performance applications with Mainstage. *Prerequisites: TYMU-2250 Music Technology II; or permission of the instructor.* (Fee: \$45) (even years)

TYMU-3250 Music Technology IV-Fa

3 hours

This course focuses on film-scoring techniques using live instruments and electronics. Students will create music for a variety of media including film, websites, and radio. *Prerequisites: TYMU-2251 Music Technology III; or permission of the instructor.* (Fee: \$45) (odd years)

Worship (WSHP)

WSHP-1010 Introduction to Worship Ministry–Fa 1 hour

This course is designed to be an introductory course to the field of worship ministry. It will provide the student with an examination of current practices in worship ministry, an overview of the worship degree at Cedarville, the character of a worshipper, the role of a worship leader, and career opportunities.

WSHP-1020 Introduction to Worship Technology-Sp 2 hours

This course is designed to be an introductory course to the field of worship technology. It will explore the basic technologies and concepts that are needed in worship ministry today, including audio, graphics, video, copyright, and ministry team building. (Fee: \$50)

WSHP-2060 Music and the Arts in Worship–Fa 3 hours

An introduction to and overview of the philosophy and history of church music ministry in the evangelical tradition, including the biblical foundation of worship and music, the philosophical foundations for various worship approaches, the application of biblical principles to past and present traditions, and biblical, cultural, and practical principles for worship and praise ministries. **WSHP-2100 Worship Forum**—Fa, Sp **0 hour**

A once-per-semester seminar designed to expose students to various aspects of worship ministry. The seminar may take the form of a lecture or masterclass. Crosslisted with CHMU-2100 Church Music Seminar. *Prerequisites: worship major or permission of instructor.*

WSHP-2200 Worship Field Experience—Fa, Sp, Su 1 hour

Initial field experience in a local church or parachurch organization. Students are responsible for finding a place of ministry involvement to begin developing music ministry skills. Supervision will be provided by an on-site staff member. *Prerequisites: worship major or permission of instructor.*

WSHP-3100 Worship Practicum–Fa, Sp **0–1 hours**

This course is designed to help students refine their worship leadership abilities. Students will be given in-class and out-of-class worship leading assignments. Current trends and advanced worship leading topics will also be discussed. *Prerequisites: junior-level status; church music or worship major; or permission of instructor.*

WSHP-3200 Worship Administration-Sp,

3 hours

This course will study various methods of organizing and administering the total worship program of the church. This course introduces materials and methods for teaching and supervising ensembles. Students will examine, staff, finances, buildings, public relations, and leadership skills necessary to successfully fulfill one's calling.

WSHP-4900 Worship Internship—Fa, Sp 3–9 hours

Intensive field experience in worship leadership. Place of service is determined by student interest, recommendation of supervising faculty, and by sponsoring organization (typically a local church congregation). Students must apply for internships and receive endorsement from the advisor and the chair of the department one academic semester before period of service and prior to registering. Students should check with their advisor for complete internship requirements. Repeatable up to nine total hours. *Prerequisites: senior-level standing as a worship major, approval by the advisor and department Chair.*

WSHP-4980 Special Topics in Worship

1-3 hours

This is a workshop for students interested in worship leadership and will be offered on a periodic basis depending on instructor availability and student interest. Contact hours will determine the amount of credit given. *Prerequisite: topic dependent.*

School of Nursing Course Descriptions

Nursing (NSG)

NSG-1000 Member of Nursing Profession-Fa, Sp, Su 2 hours

An introduction to and application of professional nursing roles within the U.S. and global 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. (Fee: \$200)

NSG-1050 Health Promotion and Wellness–Fa, Sp $\,$ 3 hours

Through course content, theories of health and wellness are explored as foundational concepts of the professional nursing role. Students are introduced to the principles of nutrition, culture and diversity, development across the lifespan, and multi-dimensional nursing care. The development of a biblical worldview related to health and wholeness is emphasized. *Prerequisite: NSG-1000 Member of Nursing Profession or by permission of instructor; corequisite: NSG-1055 Experiences in Health Promotion.* (Fee: \$150)

NSG-1055 Experiences in Health Promotion—Fa, Sp 1 hour

Clinical and laboratory experiences provide the student with opportunities to apply concepts of health promotion, wellness, nutrition, communication, hygiene, sleep, exercise, and safety to the care of patients and families. *Prerequisites: NSG-1000 Member of Nursing Profession; corequisite: NSG-1050 Health Promotion and Wellness; or permission of instructor.* (Fee \$150)

NSG-2000 Roles in Disease Prevention—Fa

4 hours

Principles of disease prevention are explored as foundational concepts of the professional role, emphasizing safety, communication, infection control, nutrition, stress, coping, anxiety, and grief. The course focuses on the development of systematic approaches to individual health and physical assessment, and documentation of findings using appropriate technology in both laboratory and clinical settings. *Prerequisite: GBIO-2010 Human Anatomy and Physiology or by permission of instructor.* (Fee: \$300)

NSG-2050 Roles in Disease Management-Sp

4 hours

An introduction to the concepts of pathophysiology and disease management as they are used to provide nursing care to patients across the lifespan. Focus is on the use of a broad range of psychomotor skills required to intervene on behalf of clients with pathophysiologic imbalances in health. Students begin to develop the professional role of provider of care within the contexts of disease, ethics, diversity, evidence, personal values, and critical reasoning both in the laboratory and clinical settings. *Prerequisite: BIO-2210 Microbiology; CHEM-1000 Principles of Chemistry; GBIO-2015 Anatomy and Physiology II; NSG-2000 Roles in Disease Prevention; or by permission of instructor.* (Fee: \$300)

NSG-2200 Cross-Cultural Interactions-Fa, Sp 1 hour

Cross-cultural interactions are planned and purposeful experiences designed to gain information and understanding of missions and/or cross-cultural nursing. *Prerequisite: permission of instructor.*

NSG-3000 Care of III Adults-Fa, Sp

6 hours

6 hours

Focus is on common physiological imbalances of adults and nursing care required to restore or promote health balances across the five dimensions. Critical thinking, assessment, and communication skills consistent with biblical principles will be utilized to manage information and provide culturally appropriate care. Students will demonstrate competency in technical skills and the professional nursing role within the clinical setting. *Prerequisite: Junior nursing major status.* (Fee: \$225)

NSG-3010 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. *Prerequisite: Junior nursing major status.* (Fee: \$225)

NSG-3030 Care of Children–Fa, Sp 6 hours

Focus is on common physiological imbalances of infants, children, and adolescents and the nursing care required to restore or promote physical, emotional, intellectual, social, and spiritual health. Special emphasis is given to the application of growth and developmental theories in the provision of developmentally appropriate care to the pediatric population. Students gain increasing independence in professional nursing role development as providers and coordinators of care. *Prerequisite: Junior nursing major status*. (Fee: \$225)

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. *Prerequisite: PYCH-1600 General Psychology; Junior nursing major status.* (Fee: \$225)

NSG-3110 Pharmacology-Sp

3 hours

Pharmacokinetics, pharmacodynamics, and pharmacotherapeutics of major drug categories are discussed as they are used to restore health balance. Special emphasis is given to the ways in which pharmacological agents may create new health demands. Nursing actions to prevent or minimize these demands are discussed. Prerequisites: BIO-2210 Microbiology; CHEM-1000 Principles of Chemistry; GBIO-2015 Human Anatomy and Physiology II; NSG-2000 Roles in Disease Prevention; 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-3000 Care of III Adults; permission of instructor.*

NSG-3800 Nursing Externship–Su 1–4 hours

The focus is on exploration of nursing roles within precepted clinical experiences. Students apply critical thinking to promote and restore health using the Cedarville University School of Nursing Curricular Model. Emphasis is given to application of biblical truth in health care delivery and in addressing common ethical and legal issues encountered by nurses. *Prerequisites: Completion of all junior-level nursing courses.*

NSG-3930 3 hours

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: Junior nursing major status*; *PYCH-2610 Statistics*. (Fee: \$50)

NSG-4000 Care of Populations–Fa

6 hours

Students focus on contemporary health issues of populations and communities using theoretical models of epidemiology, health promotion, primary health care, and public health practice. Students integrate knowledge from the health, social, and nursing sciences to population and community health nursing through targeted assessment, interventions, programs, and advocacy. *Prerequisite: senior nursing major status.* (Fee: \$300)

NSG-4020 Leadership and Management-Sp

6 hours

The focus is on the development of leadership and management knowledge and behaviors required for the baccalaureate prepared nurse. Special emphasis is given to the biblical framework for leadership and management. Simulated experiences in leadership labs provide opportunities to apply leadership and management principles and theories as providers, managers, and coordinators of nursing care. *Prerequisite: senior nursing major status*. (Fee: \$200)

NSG-4030 Complex Care Management–Fa 6 hours

Focuses on the nursing management of individuals or groups experiencing complex multidimensional health imbalances. Special emphasis is placed on the growth of personal and professional development with respect to biblical character qualities. Students assume professional nursing roles in a variety of critical care settings working under the supervision of faculty. *Prerequisite: senior nursing major status.* (Fee: \$300)

NSG-4060 Transition into Practice—Sp 6 hours

Students assume professional nursing roles (member of profession, provider of care, and manger of care) working under the supervision of faculty, RN preceptors, clinical specialists, and/or various levels of nurse managers in an assigned clinical area. Students work full time during the course following the preceptor's schedule and shift, including nights, weekends, and holidays. *Prerequisite: completion of all other clinical nursing courses.* (Fee: \$200)

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-Fa, Sp 1-3 hours

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

NSG-4950 Seminar in Nursing-Sp

PPHR-1011

3 hours

Capstone course requiring synthesis of previous curricular programming. Students are challenged to integrate a Christian philosophy of nursing as they adopt the role of professional nurse. Students investigate the interplay among political, legal, economic, social, and ethical factors as it affects health care. Capstone course. Prerequisite: NSG-4030 Complex Care Management. Corequisite: NSG-4020 Leadership and Management, NSG-4060 Transition into Practice. (Fee: \$200)

School of Pharmacy Course Descriptions

Prepharmacy (PPHR)

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1 hour

Profession of Pharmacy-Introduction to Public Health-Fa

This course will introduce students to basic public health concepts as they relate to pharmacy. Emphasis will be on understanding the factors that impact community and behavioral health as well as how to effectively plan health promotion activities within a pharmacy setting.

PPHR-1012 1 hour

Profession of Pharmacy-History and Issues-Fa, 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. (Fee: \$20)

PPHR-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 their field of practice. (Fee: \$50)

PPHR-2014 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 their field of practice. (Fee: \$50)

PPHR-3300 3 hours

Biostatistics in Pharmacy and Medicine—Sp

This is an introduction to the principles of statistics as it applies to the understanding and interpretation of the biomedical literature. The emphasis of this course is on the application of statistical tests commonly employed in biomedical research and the interpretation of the results. *Prerequisite: GMTH-1030 Precalculus, or equivalent or permission of instructor.*

PPHR-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; PPHR-1011 Profession of Pharmacy-Introduction to Public Health; PPHR-1012 Profession of Pharmacy-History and Issues; PPHR-2013 Profession of Pharmacy-Careers; PPHR-2014 Profession of Pharmacy-Careers.

PPHR-4280 2 hours

Introduction to Health Behaviors and Beliefs

This course provides an introduction to concepts of patient health behaviors and cultural health beliefs. In the first half of the semester, students will examine the theories explaining health behaviors and complete in-class activities utilizing the theory to influence health behavior change. In the second half of the semester, students will examine health beliefs in cultures around the world and the implications of these beliefs with regard to modern health care systems.

Department of Psychology Course Descriptions

Psychology (PYCH)

PYCH-1000 Orientation to Psychology-Fa, Sp

1 hour

Acquaints the psychology major with various areas and issues in the field of psychology. Included will be its specialties, graduate school information, vocational opportunities, and legal and ethical matters. Should be taken during the freshman year.

PYCH-1010 Writing in APA-Fa, Sp

1 hour

Students in the course will learn and practice the standards of writing for the behavioral and social sciences as set forth by the American Psychological Association (APA) and the ethical standards for research and scholarship.

PYCH-1020 1 hour

Graduate School and Career Preparation-Fa, Sp

Information and guidance is provided for students to make informed decisions regarding postbaccalaureate career options in the human services. Students explore field options comparing non-graduate school, preprofessional jobs as well as professional career opportunities in psychology, counseling, and marriage and family therapy.

PYCH-1600 General Psychology–Fa, Sp, Su 3 hours

Designed to provide a survey of modern scientific psychology. The course content centers on such topics as the foundations of psychology, development over the life span, how we experience the world, learning and thinking, motivation and emotion, personality, and social behavior. (Fee: \$5)

PYCH-1800 Cross-Cultural Psychology-Fa, Sp 3 hours

A survey course designed to make students sensitive to the impact of culture on life.

PYCH-2600 Human Development: Life Span-Fa, Sp 3 hours

An analysis of the physiological, social, and psychological development of the individual from conception through the total life span.

PYCH-2610 Statistics–Fa, Sp, Su **3 hours**

Designed to provide an elementary coverage of descriptive and sampling statistics commonly used in 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 **3 hours**

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.

PYCH-2735 Child-Adolescent Development-Fa, Sp 3 hours

A study of the physiological, social, and spiritual growth of the child from conceptual through adolescence. Emphasis on the developmental research on family systems theory, the importance of developmentally appropriate learning objectives including play, and the influence of cultural practice and beliefs on family systems.

PYCH-2750 The Parent and the Child

3 hours

Designed to explore the basic value requisites for effective family living. Basic concepts such as love, communication, and parental modeling will be stressed.

PYCH-2840 3 hours

Concepts of Chemical Dependency-Fa, Sp, Su

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, PYCH, SOC, or SWK.

PYCH-2850 Psychology of Adjustment

3 hours

The systematic process of applying psychological principles to everyday issues of human life. Biblical perspectives are integrated into problem-solving paradigms for the development of a psychologically healthy personality.

PYCH-3000 Addictions-Sp

3 hours

This course examines a variety of addictions, including alcohol, drugs, food, sex, gambling, computer games, Internet (including pornography), and codependency. The course will focus on causes, symptoms, diagnosis, treatment, and impact on society. Students will be challenged to develop a biblical perspective.

PYCH-3130 Intimate Relationships-Fa

3 hours

Explores friendship, love, and romance from historical, theoretical, and philosophical perspectives. *Prerequisite: PYCH-1600 General Psychology or permission of instructor.*

PYCH-3380 Health Psychology-Sp

3 hours

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

PYCH-3420 Human Sexuality-Sp

3 hours

Study of biblical content regarding human sexuality and an analysis of contemporary concepts within a framework of Christian thought. Crosslisted with SOC-3420 Human Sexuality. *Prerequisite: PYCH-1600 General Psychology or permission of instructor.*

PYCH-3520 Counseling and Mentoring Women-Fa, Sp 3 hours

Study of the distinctives of biblical counseling specifically applied to counseling women, the mandate and skill of mentoring woman to woman, and biblical responses to life struggles that are specific to women. Crosslisted as BTCM.

PYCH-3610 3 hours

History and Systems of Psychology-Fa, Sp

Major trends in the development of psychology from its beginning to the present. Emphasis is placed upon contemporary theory. *Prerequisite: PYCH-1600 General Psychology or permission of instructor.* (Fee: \$10)

PYCH-3620 Psychology and Christianity-Fa, Sp 3 hours

Students will examine the historical and contemporary discussions that have surrounded the boundaries and interface of psychology and Christianity.

PYCH-3630 Testing and Measurement-Fa

3 hours

Emphasis on measurement theory and its applications, including concepts of validity, reliability, and test construction and selection. *Prerequisite: PYCH-2610 Statistics.* (Fee: \$20)

PYCH-3640 3 hours

Industrial/Organizational Psychology-Sp

Psychology applied to the work world. Emphasis is on methodology and activities of industrial/organizational psychologists. *Prerequisite: PYCH-1600 General Psychology or permission of instructor.*

PYCH-3650 Learning and Memory–Fa, Sp 3 hours

A survey of theories in the field of learning and memory. Emphasis will be placed on the relationship between brain and behavior. Computer laboratory exercises are used to enhance understanding of the concepts presented. *Prerequisite: PYCH-1600 General Psychology.*

PYCH-3660 Professional Counseling-Fa, Sp 3 hours

An introductory course emphasizing the underlying philosophies, current theories, and accepted procedures of counseling. *Prerequisite: PYCH-1600 General Psychology.*

PYCH-3670 Group Dynamics-Fa, Sp 3 hours

Group processes in a variety of group settings are the focus as this course explores the interaction of individuals and groups. Each student participates in a growth group as part of the course.

PYCH-3680 Counseling Couples and Families-Fa 3 hours

Students will explore the dynamics of marriage and family relationships, and the means to help couples and family members reconcile or enhance their relationships. Scriptural, psychological, and Christian-life issues spanning family life cycles are studied.

PYCH-3690 Social Psychology–Fa, Sp 3 hours

The study of the behavior of individuals as it is influenced by past and/or present interactions with social factors. *Prerequisite: PYCH-1600 General Psychology, or permission of instructor.*

PYCH-3700 Adolescent Development 3 hours

Recent research dealing with adolescents will be emphasized. Emphasis is placed on the interaction of cultural, social, and personal family variables. Spiritual variables are integrated into the developmental process. *Prerequisite: PYCH-1600 General Psychology, or permission of instructor.*

PYCH-3701 Counseling Adolescents—Sp

This course introduces students to counseling interventions for helping adolescents who are struggling with common developmental and adjustment problems. *Prerequisite: PYCH-1600 General Psychology, or permission of instructor.*

PYCH-3710 Adult Development and Aging-Fa 3 hours

The study of physical, psychological, social, and spiritual development and experience in the adult years. *Prerequisite: PYCH-1600 General Psychology, or permission of instructor.*

PYCH-3720 Psychology of Personality–Fa, Sp 3 hours

Contemporary theories of the development, organization, and dynamics of personality. (Fee: \$5)

PYCH-3730 Research Methods-Fa, Sp

An introduction to methods utilized in behavioral science research; emphasis upon experimental methodology and research design. *Prerequisite: PYCH-2610 Statistics or permission of instructor.* (Fee: \$5)

PYCH-3740 Qualitative Research–Fa 3 hours

An investigation of a scientific method of inquiry utilizing qualitative rather than quantitative methodologies. Research methodologies such as participant observation and in-depth interviewing will be emphasized. A significant portion of the course will involve students actively engaging in qualitative research projects and preparing papers for potential presentation and publication. *Prerequisites: PYCH-1010 Writing in APA or permission of instructor.*

PYCH-3750 Psychological Testing

3 hours

A survey of instruments frequently utilized in psychology. Assessments include intellectual, personality, and vocational interest inventories. Students have opportunities for self-assessment and are introduced to report writing and ethical principles of psychological testing. *Prerequisite: PYCH-1600 General Psychology; PYCH-2610 Statistics or permission of instructor.* (Fee: \$20)

PYCH-3760 Cognitive Neuroscience—Sp

3 hours

Equip students with a thorough understanding of theories and research in Cognitive Neuroscience. Emphasis will be placed on brain physiology and anatomy contributing to the various cognitive processes. Laboratory exercises will enable the students to concretize the concepts presented in class as well as those presented in the research papers and to apply it to themselves. *Prerequisites: PYCH-1600 General Psychology or permission of instructor.*

PYCH-3900 Physiological Psychology–Fa, Sp

Explores the physiological, biological, and anatomical mechanisms responsible for behavior. *Prerequisite: PYCH-1600 General Psychology or permission of instructor.*

PYCH-3901 Medications and Behavior-Fa

3 hours

3 hours

An overview of the major categories of psychotropic medications. Emphasis is on general understanding of how these medications affect behavior, their mechanism of action, and common side effects. *Prerequisite: PYCH-1600 General Psychology or permission of instructor.*

PYCH-4400 Counseling Skills-Sp

3 hours

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 Psychology Comprehensive Review-Fa, Su

Reports and discussions of research literature in psychology. Required of all psychology majors during their senior year. Prerequisite: permission of instructor. (Fee: \$20)

PYCH-4650 Special Topics Seminar

1-3 hours

Various topics to be offered as interest demands. Available to students with special interests in psychology. *Prerequisite:* permission of instructor. (Fee: \$5)

PYCH-4700 Counseling Children-Fa

3 hours

An in-depth analysis of the effects of genetic, family, and environmental factors on the developmental patterns of children. A special emphasis will be placed on behavioral disorders of dysfunctional families.

PYCH-4800 1–3 hours

Seminar in Undergraduate Teaching-Fa, Sp, Su

Students learn the fundamentals of college course preparation, instruction, management, tutoring, and assessment in 1000- and 2000-level courses. *Prerequisite: permission of instructor.*

PYCH-4850 1–3 hours Advanced Seminar in Teaching Apprenticeship–Fa, Sp, Su

Students learn the fundamentals of college course preparation, instruction, management, tutoring, and assessment in 3000- and 4000-level courses. *Prerequisite: permission of instructor.*

PYCH-4950 Psychology Thesis–Fa, Sp

3 hours

Provides opportunities for students to conduct an independent research project on a topic of interest and prepare a publishable paper under the supervision of an individual faculty advisor. (Fee: \$20)

PYCH-4960 Independent Study in Psychology 1–3 hours

Independent research carried out by the advanced psychology student in an area of interest and usefulness to the student.

Prerequisite: permission of instructor.

3 hours

3 hours

PYCH-4990 Psychology Internship—Fa, Sp, Su

Junior and senior psychology majors may, with approval of the department, engage in psychological activity at a human service setting. One member of the Department of Psychology will supervise the student's internship. The department will determine the number of credit hours that will be given for individual work experience. Repeatable to nine hours. Capstone course. *Prerequisite: permission of instructor.* (Fee: \$20)

Department of Science and Mathematics Course Descriptions

Biology (BIO)

BIO-1110 Introduction to Biology-Fa

4 hours

4 hours

1-9 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

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-Fa, Sp

4 hours

Foundational knowledge of cell biology including basic mechanisms of prokaryotic and eukaryotic metabolism, division, and physiology. Three lectures and one two-hour laboratory. *Prerequisite: BIO-1110 Introduction to Biology.* (Fee: \$100)

BIO-2500 General Botany-Fa

4 hours

A survey of the phyla of the plant kingdom and autotrophic prokaryotes and protists. Laboratory experiences will focus upon field botany, plant communities, and opportunities to investigate plant processes. Special emphasis will be upon the growth and development and the anatomy and physiology of flowering plants. Three lectures and one three-hour laboratory per week. *Prerequisites: BIO-1110 Introduction to Biology.* (Fee: \$100) **BIO-2600 General Ecology**—Sp **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: Two semesters of biology* (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

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-2250 Cell Biology.* (Fee: \$100)

BIO-3460 Human Structure and Function II-Sp 4 hours

Study of the structure and function of the human body systems, including cardiovascular, respiratory, gastrointestinal, and renal systems. Laboratory focuses on physiological phenomena. Three lectures and one three-hour lab per week. *Prerequisite: BIO-3450 Human Structure and Function I.* (Fee: \$100)

BIO-3510 Plant Physiology-Sp

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.* (Fee: \$100) (odd years)

BIO-3520 Plant Taxonomy–Sp

3 hours

A study of the naming and classification of common vascular plants with emphasis upon field identification in the context of plant community and taxonomic family, plant collecting and herbarium techniques, and the importance of plants in global stewardship and missions. Two lectures and one three-hour laboratory per week. Includes a travel study opportunity during spring break. *Prerequisite: BIO-2500 General Botany.* (Fee: \$100) (even years)

BIO-3600 Environmental Ethics—Sp 3 hours

An introductory study of ethical systems that addresses the relationship and responsibility of humankind toward the natural world. Emphasis will be upon the biblical environmental stewardship ethic and its application to contemporary environmental issues. Three lectures per week. *Prerequisites: One semester of biology; junior status; permission of instructor.* (odd years)

BIOA-3600 Topics in Environmental Biology-Sp, Su 4 hours

Enrollment in this course signifies that the student has chosen to enroll in two or more Au Sable Institute courses in an upcoming term taught by faculty of various evangelical Christian colleges and universities. Course descriptions of the more than 20 Cedarville-approved Au Sable courses are available in the Au Sable Institute Bulletin available from the department Au Sable representative or at the Au Sable website. Enrollment begins when the student contacts the University Au Sable representative. Appropriate course titles will appear on the student's transcript with letter grades when the studies are completed. More information on Au Sable Institute is available under Travel Studies Opportunities or at ausable.org. *Prerequisite: acceptance to attend Au Sable Institute*.

BIO-3610 Environmental Physiology and Ecology-Sp 4 hours

A study of both physiological ecology and field ecology. The course begins with field and laboratory studies of adaptations to winter at the organismic and cellular levels and includes a travel study experience in the "North Woods." Spring emphasis shifts to field ecology with emphasis on aquatic, forest, and prairie ecosystems. Three lectures and one 3-hour laboratory per week. *Prerequisites: BIO-1120 General Zoology; BIO-2500 General Botany, BIO-2600 General Ecology.* (Fee: \$100)

BIO-3710 Biochemistry-Sp

4 hours

A study of the chemical and physical properties of macromolecules such as proteins, carbohydrates, lipids, and nucleic acids, and the metabolic pathways, enzyme kinetics, and thermodynamics associated with these molecules. Three lectures and one lab per week. *Prerequisites: BIO-1110 Introduction to Biology; CHEM-3510 Organic Chemistry I.*

BIO-3800 Biological Research-Fa, Sp

2 hours

Student participate in an inquiry-based research project under the direction of a faculty mentor. The project stresses methods of science including literature reviews, experimental design, data collection, data analysis, and interpretation and communication of the results. The research project may be geared toward completion of the senior seminar capstone experience. *Prerequisites:* sophomore status; permission of instructor. (Fee: \$150)

BIO-3810 Biological Research Internship—Fa 1–2 hours

Student will participate in an 8–10 week summer undergraduate research program of their choosing at an accredited university or medical facility. Prior to participation in the research program, the student must have the program approved by the biology faculty member in charge of the course. In addition, the student will receive a progress report form which will be filled out by the student and signed by the student's research advisor. To receive credit for the course, the student must turn in the progress report along with a copy of their laboratory notebook or research log, submit a 5–10 page research summary, and meet with the faculty member in charge of the course. *Prerequisite: completion of the first two years of the biology core.*

BIO-4210 Advanced Cell Biology-Fa

4 hours

In-depth study of the cell includes the following topics: normal cell physiology and division, differentiation, basic signaling pathways, and programmed cell death. Study of cell pathogenesis, aberrant signaling mechanisms, and other elective topics of current agricultural or biomedical interest may be included. Three lectures and one three-hour laboratory per week. *Prerequisites: BIO-2250 Cell Biology.* (Fee \$100)

BIO-4220 Signal Transduction-Sp

Study of major cellular signaling pathways in normal function and disease. Emphasis upon current discoveries and analysis of current, peer-reviewed literature in the field. Online course. *Prerequisites: BIO-2250 Cell Biology.*

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-4310 Eukaryotic Gene Regulation—Fa 3 hours

This course covers eukaryotic gene regulation which encompasses the knowledge of both basal and regulated transcriptional machinery, how these proteins are regulated, how they regulate gene expression, and their role in cancer progression. Emphasis is placed on the role of chromatin structure and epigenetics in gene expression. *Prerequisite: BIO-3300 Genetics*.

BIO-4350 Immunology-Fa

1 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. Students will also learn immunological techniques commonly used in clinical and research applications. Three lectures, one three-hour lab per week. *Prerequisite: BIO-1110 Introduction to Biology, BIO-2250 Cell Biology, and BIO-3300 Genetics.* (Fee: \$100)

BIO-4410 Developmental Biology-Fa

4 hours

Systematic study of the mechanism of reproduction, gametogenesis, and organogenesis, with an emphasis on human development. Morphological laboratory study of selected vertebrates will reinforce the lecture material. Three lectures and one lab per week. *Prerequisites: Junior status as a biology major or premed chemistry major, or BIO-3450 Human Structure and Function, or GBIO-2015 Human Anatomy and Physiology II and permission of instructor, or GBIO-2020 Human Anatomy, Physiology and Pathophysiology, and permission of instructor.* (Fee: \$100)

BIO-4450 2 hours

Introduction to Human Gross Anatomy-Fa, Sp

This course will prepare students for the first–year medical school gross anatomy course. The course is laboratory–based and will introduce students to various surgical/dissection techniques and enhance student's understanding of human anatomy through a systems based approach. Areas of focus include the muscular, nervous, cardiovascular, digestive, and respiratory systems. Prerequisite: BIO-1110 Introduction to Biology; BIO-2250 Cell Biology; BIO-3450 Human Structure and Function I; BIO-3460 Human Structure and Function II; and permission of instructor. (Fee: \$200)

BIO-4710 Principles of Bioethics-Fa

3 hours

Christian principles of bioethics, with an emphasis on personhood and the sanctity of human life. Three lectures per week. *Prerequisites: completion of core biology curriculum; junior status.*

BIO-4770 Pathophysiology-Sp

3 hours

Study of the abnormal functions of the human body during disease. Includes case study discussions and research writing. Three lectures per week. *Prerequisite: BIO-3450 Human Structure and Function I, permission of instructor. Corequisite: BIO-3460 Human Structure and Function II.*

BIO-4800 Senior Seminar-Biology-Fa, Sp

In this capstone course required of all senior biology majors, students compile data from laboratory, field study, or extensive literature research and give an oral presentation. Approval of the topic must be given by the student's academic advisor. The student must also attend a minimum of 10 seminars during the senior year. *Prerequisites: Senior status; attendance of a minimum of 10 seminars prior to the senior year.*

BIO-4880 Topics in Biology

1–3 hours

Topics of special interest by the biology faculty from the areas of modern biology. *Prerequisites: Junior status; permission of instructor.*

BIO-4900 Independent Study: Biology–Fa, Sp 1–3 hours

Supervised independent study of a particular biological phenomenon. Submission and approval of a research proposal must precede registration. *Prerequisites: major in biology; permission of advisor.*

BIO-4910 Environmental Biology Internship—Fa, Sp 4 hours

An opportunity to participate in an internship experience involving research projects with field biologists, ecologists, environmental health scientists, or environmental educators, depending upon the student's vocational preference. Involves department faculty or faculty in conjunction with local or state agencies or private institutions. Provides practical experience in field biology and ecology techniques related to habitat characterization, monitoring, management, and restoration. Prerequisites: BIO-1120 General Zoology; BIO-2500 General Botany, BIO-2600 General Ecology; permission of instructor. (Fee: \$25)

Chemistry: General Education (CHEM)

Except where noted, general education courses are designed to meet the general education requirements for graduation. These courses will not count toward graduation requirements for majors found in the Department of Science and Mathematics unless they are specifically listed in the curriculum requirements for a major. A student majoring in science or mathematics may take these courses only as electives. However, any course listed for a science or mathematics major or minor may also count toward fulfilling general education requirements.

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: \$50)

CHEM-1010 Principles of Biochemistry–Sp 5 how

For non-science majors, an introduction to organic compounds not covered in CHEM-1000 and a study of the nomenclature and metabolism of proteins, carbohydrates, lipids, and nucleic acids. Four lectures and one two-hour laboratory per week. *Prerequisite: CHEM-1000 Principles of Chemistry.* (Fee: \$100)

CHEM-1050 Chemistry for Engineers–Fa 3.5 hour

Fundamental concepts of chemistry are developed with applications of chemistry to engineering disciplines. Students learn measurement, number handling, the Periodic Table, descriptive properties of atoms, elements, molecules, and ions, chemical reactions, stoichiometry, chemical bonding, equilibrium, thermodynamics, gas laws, and the nature of solids and liquids. Three lectures per week, and one bi-weekly two-hour laboratory. (Fee: \$50)

Chemistry: Major (CHEM)

CHEM-1110 General Chemistry I–Fa 4 hours

Fundamental concepts of physical, inorganic, and analytical chemistry are developed. Students are introduced to the physical chemistry concepts of atomic theory, chemical bonding, molecular structure, intermolecular forces, states of matter, and thermodynamics. Inorganic concepts of reaction types and stoichiometry are included. Lab stresses analytical techniques including quantitation, separation, titration, and statistical analysis of data. Many of the lab reports require use of spreadsheets or other computer software. Three lectures and one three-hour lab per week. *Prerequisite: satisfactory performance on the chemistry placement exam.* (Fee: \$100)

CHEM-1120 General Chemistry II-Sp

4 hours

A continuation of General Chemistry I, including the physical chemistry concepts of kinetics and equilibrium. Inorganic topics include acids and bases, oxidation-reduction reactions, nuclear chemistry, and the descriptive chemistry of the main group and transition metal elements. Lab exercises stress quantitative analytical techniques and application of visible light spectroscopy. Lab reports require use of spreadsheets or other computer software and statistical analysis of data. Three lectures and one three-hour lab per week. *Prerequisite: CHEM-1110 General Chemistry I.* (Fee: \$100)

CHEM-2210 Analytical Chemistry I-Fa

3 hours

A study of the fundamental concepts and skills of analytical chemistry including measurement, statistical treatment of data, equilibrium constant calculations, acid-base equilibria, electrochemistry, and volumetric analysis. The laboratory sessions focus on volumetric methods such as precipitation titrations, acid-base titrations, complexation titrations, and redox titrations in which accurate measurement of volume is essential. Two lectures and one three-hour laboratory per week. *Prerequisite: CHEM-1120 General Chemistry II.* (Fee: \$100)

CHEM-2220 Analytical Chemistry II-Sp

3 hours

Detailed study of analytical instrumentation, including electro-analytical methods such as potentiometry, coulometry, voltammetry, spectrochemical analysis, and analytical separations, including various types of chromatography. Two lectures and one three-hour laboratory per week. *Prerequisite: CHEM-2210 Analytical Chemistry I.* (Fee: \$100)

CHEM-2800 Introduction to Research in Chemistry-Fa 1 hour

An introduction to the purpose and methodology of research in chemistry, including keeping a laboratory notebook, retrieving information, using the chemical literature, and writing research reports. One lecture per week. *Prerequisite: CHEM-1120 General Chemistry II.* (Fee: \$100)

CHEM-3210 Environmental Chemistry-Sp 4

4 hours

4 hours

A detailed study of energy resources, atmospheric chemistry, and surface water chemistry, with an emphasis on the application of principles from previous courses to current environmental issues. Three lectures and one three-hour lab per week. Prerequisite: CHEM-2220 Analytical Chemistry II and CHEM-3510 Organic Chemistry II, or permission of the instructor. (Fee: \$100) (odd years)

CHEM-3410 Inorganic Chemistry—Fa 3 hours

Detailed study of inorganic compounds, including atomic structure, the structure of solids, molecular structure and bonding, molecular symmetry and its applications, acids and bases, and oxidation and reduction. Lab stresses synthesis and characterization using instrumental methods. Two lectures and one three-hour lab per week. *Prerequisite: CHEM-2210 Analytical Chemistry I.* (Fee: \$100)

CHEM-3510 Organic Chemistry I-Fa

Study of the structure, nomenclature, stereochemistry, physical properties, spectra, syntheses, reactions, and reaction mechanisms of alkanes, alkenes, alkynes, alkyl halides, alcohols, and ethers. Biological and medical applications are included. Lab includes basic techniques, procedures, and instruments, as well as syntheses and reactions. Three fifty-minute lectures and one three-hour lab per week. *Prerequisite: CHEM-1120 General Chemistry II.* (Fee: \$100)

CHEM-3520 Organic Chemistry II-Sp

4 hours

Continuation of Organic Chemistry I, including the detailed study of conjugated aliphatics, aromatics, aldehydes, ketones, carboxylic acids, anhydrides, esters, acyl halides, amines, phenols, and aryl halides. Lab includes systematic qualitative organic analyses using modern instrumental methods (H-NMR, C-NMR, FTIR, GC/MS). Three fifty-minute lectures and one three-hour 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-3800 1 hour

Research Methods in Chemistry-Fa, Sp, Su

An introduction to the chemical literature and laboratory skills associated with an upcoming research project. This course may be repeated up to a total of three times. Prerequisites: CHEM-2800 Introduction to Research in Chemistry; CHEM-2210 Analytical Chemistry I or CHEM-3510 Organic Chemistry I; permission of instructor. (Fee: \$150)

CHEM-4210 Advanced Chemistry Lab-Sp

2 hours

This laboratory course will integrate organic and inorganic synthetic methodology with the application of various characterization techniques. Analytical, physical, and instrumental analysis techniques will be utilized. One three-hour lab per week. *Prerequisite: CHEM-4320* Quantum Mechanics and Spectroscopy. (Fee: \$100)

CHEM-4310 Thermodynamics and Kinetics–Fa 4 hours

A study of the laws of thermodynamics, chemical equilibrium, solutions, and kinetics. Three lectures and one three-hour lab per week. *Prerequisites: CHEM-2210 Analytical Chemistry I; PHYS-2120 General Physics II.* (Fee: \$100)

CHEM-4320 4 hours

Quantum Mechanics and Spectroscopy-Sp

A study of the states of matter, surface phenomena, quantum mechanics, bonding, and spectroscopy. Three lectures and one three-hour lab per week. *Prerequisites: CHEM-2210 Analytical Chemistry I; PHYS-2120 General Physics 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 their 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-Fa, Sp 1-3 hours

Investigation of a chemical research project and its culmination in a scholarly research report. Submission and approval of a research proposal must precede registration. May be repeated once for credit. *Prerequisites: CHEM-2800 Introduction to Research in Chemistry; CHEM-3800 Research Methods in Chemistry; permission of instructor.* (Fee: \$150)

CHEM-4880 Topics in Chemistry

-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 Thermodynamics and Kinetics.*

CHEM-4910 Chemistry Internship—Fa, Sp, Su 1–3 hours

Students will gain experience in the chemistry profession in a departmentally approved work environment. A technical report detailing the skills and techniques utilized and a supervisor's evaluation will be the basis for successful completion. *Prerequisite:* CHEM-2220 Analytical Chemistry II or CHEM-3520 Organic Chemistry II.

Environmental Science (ENVS)

ENVS-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) Tonics of emphasis are related to the fields in which these

(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 Ecology-Fa

3 hours

An advanced study into the distribution, structure, and function of ecosystems. Emphasis will be placed on determining patterns and identifying the socio-ecological processes that connect the physical environment, living organisms, and human communities. Two one-hour lectures and one two-hour lab per week and includes a travel study experience to the Indiana Dunes National Lakeshore. *Prerequisites: BIO-2600 General Ecology or permission of the instructor.* (Fee: \$100) (odd years)

ENVS-3600 Environmental Ethics-Sp 3 hours

An introductory study of ethical systems that addresses the relationship and responsibility of humankind toward the natural world. Emphasis will be upon the biblical environmental stewardship ethic and its application to contemporary environmental issues. Three lectures per week. *Prerequisites: One semester of biology; junior status; permission of instructor.* (odd vears)

ENVS-4100 Environmental Geology-Fa 4 hours

Application of geology to environmental problems such as natural resource extraction, water supply, pollution, waste disposal, landslides, floods, and land use planning. Required field trip. Includes three lectures and one three-hour lab per week *Prequisites: GEOL-1110 Introduction to Physical Geology and junior status.* (Fee:\$150) (even years)

4 hours

1 hour

Earth Science (ESCI)

Except where noted, general education courses are designed to meet the general education requirements for graduation. These courses will not count toward graduation requirements for majors found in the Department of Science and Mathematics unless they are specifically listed in the curriculum requirements for a major. A student majoring in science or mathematics may take these courses only as electives. However, any course listed for a science or mathematics major or minor may also count toward fulfilling general education requirements.

ESCI-2310 Introduction to Oceanography-Sp 4 hours

An introductory survey of the oceans and the processes that occur in and around them. Major topics will include ocean currents, coastlines, plate tectonics, marine sediments, waves, tides, composition of sea water, interaction of the ocean with the atmosphere, marine life forms, and their habitats. A field trip will visit a local aquarium. Lecture three times per week and one laboratory per week. This course satisfies the physical science requirement of the general education requirements. (Fee: \$100) (odd years)

ESCI-2410 General Meteorology 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. The course and lab will be taught at a level which requires the use of algebra and trigonometry. Three weekly lectures and one two-hour laboratory per week. This course satisfies the physical science component of the general education requirements (Fee: \$100) (even years)

ESCI-2510 Introduction to Astronomy–Fa 4 hours

An introduction to the structure and composition of the universe. Topics covered will include measurement of celestial objects, structure of the solar system and galaxy, composition and history of the universe. Time will be spent in the discussion of various cosmological models and their implications. The course and lab will be taught at a level which requires the use of algebra and trigonometry. Three weekly lectures and one two-hour laboratory per week. Variations in the laboratory schedule will be made to accommodate field observations. This course satisfies the physical science requirement of the general education requirements. (Fee: \$100) (odd years)

Forensic Science (FORS)

FORS-3400 Forensic Science-Fa

This course will apply a student's knowledge of chemistry and biology to specific forensic analyses. Topics to be covered will include matching of paint and glass samples, use of GC/Mass Spectrometry and IR spectroscopy to identify controlled substances, analysis of explosives and fuel residues, DNA typing, fingerprint examination, document examination, and giving of expert testimony. Prerequisites: BIO-2250 Cell Biology; CHEM-2220 Analytical Chemistry II; CRJU-3390 Criminal Evidence. Corequisites: CHEM-3510 Organic Chemistry I. (Fee: \$100)

FORS-4800 Forensic Science Capstone-Sp 1 hour

Capstone course for the forensic science major. Students will research a specific forensic procedure and give a brief explanation of it. This will be followed by a series of detailed questions from a panel of faculty members, designed to simulate the examination of an expert witness. Students will be graded on their knowledge and professional presentation. *Prerequisites: BIO-3710 Biochemistry; CHEM-3520 Organic Chemistry II; FORS-3400 Forensic Science.*

General Biology (GBIO)

Except where noted, general education courses are designed to meet the general education requirements for graduation. These courses will not count toward graduation requirements for majors found in the Department of Science and Mathematics unless they are specifically listed in the curriculum requirements for a major. A student majoring in science or mathematics may take these courses only as electives. However, any course listed for a science or mathematics major or minor may also count toward fulfilling general education requirements.

GBIO-1000 Principles of Biology–Fa, Sp, Su 3.5 hours

Emphasizes basic life processes and the principles by which these processes operate at the ecological, organismic, and cellular levels of organization with emphasis on human responsibility toward life at all levels. Three lectures each week and one two-hour, bi-weekly laboratory. (Fee: \$50)

GBIO-2010 Human Anatomy and Physiology I-Sp 4 hours

Survey of the anatomy and physiology of the human body with an emphasis on cell and human tissues and on the skeletal, muscular, nervous, and endocrine systems. Three lectures and one laboratory experience per week. *Prerequisite: GBIO-1000 Principles of Biology; or CHEM-1000 Principles of Chemistry.* (Fee: \$75)

GBIO-2015 Human Anatomy and Physiology II–Fa 4 hours

Survey of the anatomy and physiology of the human body with an emphasis on the cardiovascular, respiratory, immune, digestive, urinary, and reproductive systems. Three lectures and one two hour laboratory per week. *Prerequisites: GBIO-2010 Human Anatomy and Physiology I.* (Fee \$75)

GBIO-2210 Principles of Microbiology-Fa

A study of the characteristics, culture, and control of bacteria, viruses, and fungi. A major emphasis is placed on microorganisms and disease. Laboratory techniques are emphasized. Three lectures plus one lab each week. *Prerequisites: CHEM-1000 Principles of Chemistry.* (Fee: \$75)

GBIO-2720 Bioethics and the Human Experience-Sp 3 hours

An integrative survey of bioethics, emphasizing human personhood, human sexuality and reproduction, end-of-life issues, and biomedical decision making. *Prerequisite: GBIO-1000 Principles of Biology.*

GBIO-3350 Principles of Immunology-Sp 3 hours

Overview of the human immune system, including study of the innate and adaptive immune systems, the mechanics of an immune response, antibodies and antigens, and immunopathology. This course is designed for pre–pharmacy and non-biology major pre–medical students. Three lectures per week. *Prerequisites: BIO-1110 Introduction to Biology; BIO-2250 Cellular Biology*

GBIO-4700 Bioethics Colloquium-Sp

An integrative bioethics project, including a written paper and oral presentation. *Prerequisite: Completion of other elements of Bioethics minor.*

Geology (GEOL)

Except where noted, general education courses are designed to meet the general education requirements for graduation. These courses will not count toward graduation requirements for majors found in the Department of Science and Mathematics unless they are specifically listed in the curriculum requirements for a major. A student majoring in science or mathematics may take these courses only as electives. However, any course listed for a science or mathematics major or minor may also count toward fulfilling general education requirements.

4 hours

GEOL-1110 Introduction to Physical Geology-Fa

An introductory study of the earth and its geological processes, including various alternative interpretations of earth history. Laboratory exercises will complement the lecture material and will include local field trips. Three weekly lectures and one weekly laboratory experience. This course satisfies the physical science requirement of the general education requirements. (Fee: \$150)

GEOL-1120 Historical Geology-Sp 4 hours

The earth's geological history from its beginning to the present. Topics of study include plate tectonics, biological evolution and the meaning of the fossil record, correlation, dating methods, and alternative views of earth history. Required field trips will study local fossils. Three lectures and one laboratory per week. *Prerequisites: GEOL-1110 Introduction to Physical Geology.* (Fee: \$150)

GEOL-2030 3.5 hours

Geology of the National Parks for Geology Majors-Su

This course will explore the geology of the national parks and surrounding areas in specific regions of the United States. It is a two week travel study course. Trip locations may vary from year to year. Six or more major areas will be explored on each trip. Students will be expected to complete a photographic atlas with appropriate geological descriptions of each stop and a term paper describing a particular feature of interest at one of the sites visited. Special emphasis will be placed on how geologic history is interpreted and placed into biblical and conventional frameworks. Students will learn how to make geological observations and take field notes. It is necessary for students to be in good physical shape for occasional hiking in rough terrain and at high altitudes, although requirements can be modified for students unable to do so. Special equipment may be required. Prerequisite: Geology major and at least one previous GEOL course. (Fee: will vary from year to year; will be used to cover lodging, car rental, gas and other expenses. Transportation to and from the trip starting location and food expenses will be covered by the students.) GEOL-2100 Mineralogy-Fa 4 hours

The student will study the occurrence, associations, characteristics, and crystal chemistry of common minerals. Laboratory work will emphasize identification and recognition of minerals. *Prerequisite: GEOL-1110 Introduction to Physical Geology; CHEM-1110 General Chemistry I (corequisite).* (Fee: \$150) (even years)

GEOL-2810 Geology Field Work and Research-Su 1–4 hours

This course gives a student an opportunity to work alongside an active geologist in the field and/or the laboratory. The student must get approval from his advisor and submit a written description of the work to be performed before the experience begins. The student must submit notes and a summary of the work completed when the experience is over. Hours are variable depending on the length of the experience and the work completed. *Prerequisites:* sophomore geology major and advisor approval of the proposal.

GEOL-3100 Geomorphology—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) (even 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

4 hours

Students will study the occurrence and origin of sedimentary, igneous, and metamorphic rocks and learn how to identify them. Required field trip. *Prerequisite: GEOL-2100 Mineralogy; CHEM-1120 General Chemistry II (corequisite).* (Fee: \$500) (even years)

GEOL-3400 Structural Geology-Fa

4 hours

Mechanics of rock deformation and the study of various structures in all types of rocks. Required field trip. *Prerequisite: GEOL-3300 Petrology; GEOL-3100 Geomorphology and PHYS-2120 General Physics II (corequisites).* (Fee:\$150) (odd years) **GEOL-3600 Readings in Geology**—Fa **1 hour**

Students will read and discuss a current text or series of papers. The purpose is to help the student become more familiar with the geological research and literature. Part of the course requirements may include attending a national or regional GSA conference. Course may be taken up to three times for credit. *Prerequisite: GEOL-1120 Historical Geology.* (Fee:\$150)

GEOL-3800 3 hours Philosophy of Science and Research Methods in Geology-Sp

By its nature, geological research and its resultant interpretations are heavily paradigm-driven. This course will examine the scientific method and study the development of various scientific paradigms, especially those within geology. Students will learn productive ways to integrate their faith with science and how to apply that to a research method that arrives at conclusions without compromising data. The merits of various models of earth history will be critiqued. *Prerequisite: GEOL-1120 Historical Geology;* 16 hours of geology courses and junior status. **GEOL-4100 Environmental Geology**—Fa

Application of geology to environmental problems such as natural resource extraction, water supply, pollution, waste disposal, landslides, floods, and land use planning. Required field trip. Includes three lectures and one three-hour lab per week *Prequisites: GEOL-1110 Introduction to Physical Geology and junior status.* (Fee:\$150) (even years)

GEOL-4200 Stratigraphy and Sedimentology-Sp 5 hours

The student will be introduced to principles of sedimentary rock correlation and structure. Emphasis will be placed on how to interpret past rates and processes using clues gained from sedimentary rocks. Required field trip(s). *Prerequisite: GEOL-1120 Historical Geology; GEOL-3300 Petrology.* (Fee: \$500) (odd years) **GEOL-4400 Summer Field Camp**—Su **6 hours**

Five weeks of geologic mapping and problem solving in structural geology and stratigraphy. Selected course must be approved by the department Chair (the course will be sponsored by another institution). The course will typically be taken following the student's junior or senior year. *Prerequisites: GEOL-3100 Geomorphology; GEOL-3300 Petrology; GEOL-3400 Structural Geology; and GEOL-4200 Stratigraphy and Sedimentology.* **GEOL-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 course work. *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, Sp

Topics of special geological interest that are not in the existing curriculum are selected by the faculty. The topic should provide a logical extension of the student's academic plan and enhance the student's educational experience. *Prerequisite: completion of 16 hours in geology; junior status; and permission of instructor.*

GEOL-4900 Independent Study in Geology-Fa, Sp 1-3 hours

Supervised independent study of a particular geologic phenomenon. Submission and approval of a research proposal must precede registration. *Prerequisite: major in geology; approval of research proposal.*

General Mathematics (GMTH)

Except where noted, general education courses are designed to meet the general education requirements for graduation. These courses will not count toward graduation requirements for majors found in the Department of Science and Mathematics unless they are specifically listed in the curriculum requirements for a major. A student majoring in science or mathematics may take these courses only as electives. However, any course listed for a science or mathematics major or minor may also count toward fulfilling general education requirements.

GMTH-1010 Introduction to Mathematics—Fa, Sp **3 hours**Introduction to mathematical concepts including voting theory, apportionment and fair division, models of population growth, and graph theory. *Prerequisite: proficiency in mathematics.*

GMTH-1020 College Algebra-Fa 3 hours

Introduction to methods of algebraic analysis. Includes (but may not be limited to) many topics of intermediate algebra: the field axioms, linear functions, inequalities, systems of equations, determinants, and quadratic functions. This course, in conjunction with GMTH-1030 Precalculus, is designed to prepare the student for calculus. *Prerequisite: proficiency in mathematics; two years of high school mathematics; or permission of instructor.*

GMTH-1030 Precalculus–Fa, Sp 4 hours

Introduction to the principles of trigonometry and some advanced topics in algebra. Coverage includes, but may not be limited to, exponential, logarithmic, trigonometric, and circular functions, triangle problems, and vectors. This course, in conjunction with GMTH-1020 College Algebra, is designed to help prepare the student for calculus. *Prerequisites: proficiency in mathematics; GMTH-1020 College Algebra or equivalent; or permission of instructor.*

GMTH-1040 3 hours

Calculus for Business/Social Science-Fa, Sp

Introduction to the concepts of differential and integral calculus for students of business. Numerous applications from these areas will be considered. Does not apply toward major in mathematics. *Prerequisite: proficiency in mathematics.*

GMTH-2110 Introduction to Biostatistics-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; or 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.

GMTH-3100 Theory of Interest—Sp 3 hours

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 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

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 course highlights key concepts in middle school science by reviewing and extending concepts from previous science courses with an emphasis on the integration of earth sciences, physical sciences, and life sciences. Concepts addressed include the nature and history of science, the theories of biological and geological evolution, and cell theory. This course will include pertinent pedagogy for teaching stated concepts in a middle school setting. Three lectures and one laboratory session per week. *Prerequisites: GBIO-1000 Principles of Biology; GSCI-1010 Principles of Earth Science. CHEM-1000 Principles of Chemistry (recommended)* (Fee: \$75) (even years)

GSCI-3060 4 hours

Environmental Science for Middle School Educators—Sp
Introduction to the interdisciplinary study of the dynamic relationships that exist between the earth's organisms and their environment and how human activity affects these relationships. Students will identify and analyze environmental problems both natural and human-made and identify and explore sustainable solutions to the problems. This course will include pertinent pedagogy for teaching environmental science in a middle school setting. Three lectures and one laboratory session per week. This course does not satisfy the general education requirement for biology. Prerequisites: GBIO-1000 Principles of Biology, GSCI-1010

Mathematics (MATH)

MATH-1710 Calculus I-Fa, Sp

Principles of Earth Science (Fee: \$100) (odd years)

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

3.5 hours

5 hours

The second course of a two-course sequence covering the basic concepts of analytic geometry and single variable calculus. Includes sequences, series, expansion of functions into Taylor and power series, conic sections, plane curves, parametric equations, polar coordinates, vectors and geometry in three-space, vectors, and vector calculus. *Prerequisite: MATH-1710 Calculus I or equivalent or permission of instructor.*

MATH-1880 Topics in Calculus-Fa, Sp, Su

1-3 hours

This course is for students who are attempting to transfer credit for MATH-1710 or MATH-1720 Calculus I and II when those transferred courses lack some of the topics contained in MATH-1710 or MATH-1720. It requires full participation in a MATH-1710 or MATH-1720 course during the sections in which the student's transferred course is found to be deficient or in a stand-alone course offered during Summer School I. Prerequisite: GMTH-1030 Precalculus or equivalent; permission of instructor. Corequisite: partial transfer credit for MATH-1710 and/or MATH-1720 or approved transient credit for a Calculus I or II course that will provide less than full credit for MATH-1710 or MATH 1720.

MATH-1990

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.

MATH-2210 Logic and Methods of Proof-Fa

3 hours

Introduction to formal mathematical logic; emphasis on preparing students for the abstraction of upper-division courses. Special attention is given to the development of students' skills with a variety of methods of proof, using examples from numerous areas. Prerequisites: MATH-1720 Calculus II; MATH-1990 Beautiful Math Structures and Thinking; or permission of instructor.

MATH-2510 Discrete Math for Computer Science-Sp 3 hours

An introduction to mathematical foundations of computer science, including propositional and predicate calculus, methods of proof, sets and relations, recurrences, graphs and trees, and program correctness and proofs. This course does not satisfy any requirements for the B.A. or B.S. in mathematics or the B.A. in integrated mathematics education. *Prerequisite: MATH-1710 Calculus I.*

MATH-2710 Calculus III-Fa, Sp

3 hours

Introduction to differential and integral calculus of several variables, multiple integrals, vector analysis, line integrals, and surface integrals. *Prerequisite: MATH-1720 Calculus II or equivalent or permission of instructor.*

MATH-2740 Differential Equations—Fa, Sp 3 hou

Study of the standard techniques employed in the solution of differential equations with emphasis on those arising from physical problems. *Prerequisite: MATH-1720 Calculus II or equivalent.*

MATH-2800 LaTeX for Technical Documents-Sp 1 hour

In this course students will be introduced to the typesetting language of LaTeX through the use of tutorials, example documents, and homework assignments. They will learn to easily prepare professional-looking theses, conference papers, and journal papers. They will also learn how to create professional-looking presentations, homework, quizzes, examinations, syllabi, resumés, and curriculum vitae.

5 hours

MATH-3050 4 hours

Algebraic Structures for Secondary Education Majors-Fa

An introduction to the basic ideas of number theory, abstract algebra, and linear algebra. Factorization of integers, congruence modulo m, Fermat's Theorem, groups, rings, integral domains, fields, vector spaces, systems of linear equations, determinants and inverses, linear transformations, eigenvalues, and eigenvectors. Does not count toward B.A. or B.S. majors in mathematics. *Prerequisites: MATH-2210 Logic and Methods of Proof.*

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 3 hours

Study of combinatorial reasoning, focusing on enumeration. Intended to develop a proficiency in methods of enumerative problem solving. Topics chosen from areas such as counting methods for arrangements and selections, permutations and combinations, generating functions, partitions, and recurrence relations. *Prerequisite: MATH-2210 Logic and Methods of Proof.* (odd years)

MATH-3610 Linear Algebra-Sp 3 hours

Introduction to the algebra of linear equations, including determinants, matrices, vector spaces, eigenvalues, eigenvectors, and linear mappings. *Prerequisite: MATH-1720 Calculus II or equivalent.*

MATH-3710 Advanced Calculus-Sp 3 hours

Topics in function theory, vector analysis, differential calculus of several variables, vector differential calculus of several variables, integral calculus of several variables, vector integral calculus of several variables, and infinite series. *Prerequisite: MATH-2710 Calculus III or equivalent or permission of instructor.* (even years)

MATH-3740 Complex Variables—Sp

3 hours

Introduction to complex arithmetic, differentiation: analytic functions, Cauchy-Riemann equations, harmonic functions, elementary functions and their mapping properties, integration: Cauchy's Theorem, Cauchy's Integral Formula, Taylor and Laurent series, poles, residues, and the residue theorem. *Prerequisite: MATH-1720 Calculus II.* (odd years)

MATH-3750 Introduction to Dynamical Systems-Sp 3 hours

Topics include one-dimensional flows and bifurcations, phase portraits, linearization and classification of equilibrium points, limit cycles, chaos, one-dimensional maps, and fractals. *Prerequisite: MATH-2740 Differential Equations*. (even years)

MATH-3760 Numerical Analysis-Sp 3 hou

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 hou

This course will introduce the mathematics major to the various resources and methods available for researching topics in mathematics. This could include the use of library resources at Cedarville University, use of Internet resources, WWW searches, and a tour of the library at a larger university, where journals and indices of importance can be referenced. *Prerequisites:* MATH-2210 Logic and Methods of Proof; ENG-1400 English Composition. (Fee: \$50)

MATH-4110 Probability and Statistics II-Sp

3 hours

Second course of a two-course sequence covering basic concepts of statistics. Topics chosen from the following: hypothesis tests, regression analysis, quality control, and non-parametric statistics. *Prerequisites: MATH-3110 Probability and Statistics I.*

MATH-4210 Mathematical Methods for Physicists-Fa 3 hours

Advanced mathematical methods used in the solution of physics problems. Topics include curvilinear coordinates, vector analysis, and solutions to partial differential equations using Fourier, Bessel and Legendre functions. *Prerequisites: MATH-2710 Calculus III; MATH-2740 Differential Equations.* (even years)

MATH-4410

3 hours

Euclidean and Non-Euclidean Geometry-Sp

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

MATH-4450 Topology-Fa

3 hours

An introduction to elementary point set topology with emphasis on illustrating how the familiar concepts of closed and open intervals, continuity of functions, distances, and various geometrical properties have been generalized from classical mathematics. Topics include: metric spaces, topological space theory, separation axioms, covering properties, compactness, connectedness, metrizability, and complete metric spaces. *Prerequisite: MATH-2210 Logic and Methods of Proof.* (even years)

MATH-4610, 4620 Abstract Algebra I and II-Fa, Sp 3 hours/sem

Introduction to and development of the basic ideas of algebraic systems, groups, rings, integral domains, fields, and other advanced topics. *Prerequisite: MATH-2210 Logic and Methods of Proof.* (even years)

MATH-4710, 4720 Real Variables I and II-Fa, Sp 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 3 hours

Capstone Experience in Mathematics-Fa, Sp

The course will allow students to deeply research an important topic in mathematics, both individually and collectively, and to present their findings from library research as well as personal work. *Prerequisites: MATH-3800 Research Methods in Mathematics; 15 hours of courses beyond MATH-1720 Calculus II; permission of instructor.* (Fee: \$20)

MATH-4880 Topics in Mathematics–Fa, Sp 1–3 hours

Some typical topics are linear programming, numerical analysis, stochastic calculus, non-parametric statistics, partial differential equations, or mathematical modeling. This course is intended to be a topic not in the current curriculum that is a logical extension and development of the student's academic plan. *Prerequisite:* permission of instructor.

MATH-4900 1–3 hours Independent Study in Mathematics–Fa, Sp

Independent research in the various branches of mathematics and allied fields of application. Submission and approval of a research proposal must precede registration. *Prerequisite: major in mathematics or permission of research advisor.*

Mathematics Education (MTED)

MTED-3110 Clinical Teaching in Mathematics-Fa, Sp 1 hour

Students are assigned to assist a college instructor in classroom and laboratory teaching, evaluation, and related responsibilities. The student must complete 40 clock hours of clinical involvement in each teaching field for which licensure is desired. *Prerequisite: completion of Introduction to Education Block*.

MTED-3120 Teaching Mathematics—Fa 3 hours

Designed to introduce prospective secondary school mathematics teachers to the curriculum, materials, and methods of classroom teaching. *Prerequisite: admission to the Teacher Education Program.*

Physics: General Education (PHYS)

Except where noted, general education courses are designed to meet the general education requirements for graduation. These courses will not count toward graduation requirements for majors found in the Department of Science and Mathematics unless they are specifically listed in the curriculum requirements for a major. A student majoring in science or mathematics may take these courses only as electives. However, any course listed for a science or mathematics major or minor may also count toward fulfilling general education requirements.

PHYS-1010 College Physics I–Fa 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

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

4 hours

Basic concepts of mechanics using calculus. This is the first of a three-course sequence intended for students in the physical sciences and engineering programs. Topics include linear and rotational motion in three dimensions, oscillatory motion, gravitation, fluid mechanics, and basic concepts of wave motion. Three lectures and one two-hour laboratory per week. Prerequisites: MATH-1710 Calculus I; MATH-1720 Calculus II; MATH-1720 may be co-enrolled with permission of instructor. (Fee: \$100)

PHYS-2120 General Physics II-Fa, Sp

4 hours

Basic concepts of electricity and magnetism, light, and optics using calculus. This is the second of a three-course sequence intended for students in the physical sciences and engineering programs. Topics include electricity, magnetism, Maxwell's equations, DC and AC circuits, geometrical and physical optics. Three lectures and one two-hour laboratory per week. *Prerequisites: MATH-1720 Calculus II; PHYS-2110 General Physics I.* (Fee: \$100)

PHYS-2130 General Physics III-Fa

2 hours

Basic concepts of thermodynamics and modern physics using calculus. This is the third of a three-course sequence intended for students in the physical sciences programs. Topics include heat and thermodynamics, relativity theory, quantum theory, atomic and nuclear physics. *Prerequisites: MATH-1720 Calculus II; PHYS-2120 General Physics II; PHYS-2120 may be co-enrolled with permission of instructor.*

PHYS-3110 Intermediate Physics Laboratory–Fa 2 hours

Designed to reinforce concepts of the advanced physics courses and develop critical research and analysis skills. This course provides laboratory experience in such topics as oscillatory motion and waves, mechanics, electricity and magnetism, thermodynamics, and quantum mechanics. During this semester the student will develop their prospectus for their advanced laboratory project. Laboratory skills for planning, setup, documentation, and analysis using the scientific method will be emphasized. *Prerequisite: 3 hours of a 3000- or 4000-level physics course.* (Fee: \$100)

PHYS-3310 Theoretical Mechanics I-Sp

3 hours

Derivation of the motion of a point object through threedimensional space. Topics include an advanced treatment of Newtonian mechanics in three dimensions, oscillatory motion, accelerated frames of reference, central forces, and an introduction to Lagrangian mechanics. *Prerequisites: PHYS-2120 General Physics II; MATH-2740 Differential Equations; MATH-2740* may be co-enrolled with permission of instructor. (even years)

PHYS-3330 Acoustics–Fa 3 hour

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—Sp

3 hours

Study of the relationship between energy and matter through the use of thermodynamics and statistical mechanics. Topics include the laws of thermodynamics, heat, work, entropy, phase transformations, statistical distributions, and kinetic theory. *Prerequisite: PHYS-2130 General Physics III.* (odd years)

PHYS-3410 Electromagnetic Theory 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 courses and develops critical research and analysis skills. This course will focus on basic library, research, and laboratory skills for planning, setup, documentation, and analysis using the scientific method. Selected software will be introduced and used to collect data, analyze results, and document findings. There will be several laboratory sessions with experiments selected from oscillatory motion and waves, intermediate mechanics, intermediate electricity, intermediate magnetism, thermodynamics, or quantum mechanics. *Prerequisite: PHYS-2130 General Physics III.* (Fee: \$50)

PHYS-4110 Advanced Physics Laboratory–Sp 2 hours

The advanced laboratory experience is designed to reinforce concepts of the advanced physics courses and to develop critical research design, documentation, analysis, and presentation skills. The advanced laboratory provides additional experience in optical, radiation, wave, advanced mechanics, advanced electromagnetism, advanced thermodynamics, and quantum mechanics. During this semester the students will be conducting their advanced laboratory project, collecting data, and documenting results. Laboratory skills for planning, setup, documentation, analysis, and briefing using the scientific method will be emphasized. *Prerequisite: PHYS-3110 Intermediate Physics Lab.* (Fee: \$100)

PHYS-4210 Mathematical Methods for Physicists-Fa 3 hours

Advanced mathematical methods used in the solution of physics problems. Topics include curvilinear coordinates, vector analysis, and solutions to partial differential equations using Fourier, Bessel and Legendre functions. *Prerequisites: MATH-2710 Calculus III; MATH-2740 Differential Equations; 3 hours of a 3000 or 4000-level physics course.* (odd years)

PHYS-4310 Theoretical Mechanics II 3 hours

Principles of mechanics applied to systems of particles. Topics include rigid body motion, Hamilton's equations, continuous media and nonlinear oscillators. *Prerequisites: PHYS-3310 Theoretical Mechanics I.*

PHYS-4410 Electromagnetic Theory II 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.*

PHYS-4450 Optics 3 hours

Introduction to the study of classical and modern optics, including geometric optics, wave optics, and quantum optics. Topics include thin lenses, thick lenses and systems of lenses, mirrors, aberrations, lens design, interference, coherence, diffraction, polarization, and holography. *Prerequisites: PHYS-2120 General Physics II; MATH-2710 Calculus III.*

PHYS-4520 Quantum Mechanics I-Fa

3 hours

An introduction to the principles and theory of quantum mechanics including: the wave function, the time-independent Schrodinger's Equation, mathematical formalism of quantum mechanics, quantum mechanics in three dimensions, and systems of identical particles. *Prerequisite: PHYS-3510 Modern Physics.* (even years)

PHYS-4530 Quantum Mechanics II

3 hours

1 hour

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.*

PHYS-4800 Senior Seminar-Physics-Fa, Sp 1 hour

A presentation of the basic principles of the major disciplines of the sciences with a focus on the interrelationships of the science disciplines to each other. Students present a paper from library or laboratory research in their area of physics with a focus on integration. Each student must obtain approval of the topic from their advisor and seminar instructor and must set the date of presentation before enrolling in the course. A paper and oral presentation are required that include the background, setup, data collection, analysis, and conclusions from their research. The student must also attend a minimum of 10 seminars during the senior year. Guest lecturers and faculty members may present papers at the invitation of the instructor. *Prerequisite: Senior status; PHYS-3110 Intermediate Physics Lab; attendance of a minimum of 10 seminars during the sophomore and junior years; permission of instructor.*

PHYS-4880 Topics in Physics 1–3 hours

Study of topics of interest from modern and classical physics such as quantum theory, relativity, statistical mechanics, lasers, solid state physics, advanced classical mechanics, and atmospheric physics. *Prerequisites: PHYS-2130 General Physics III; MATH-2710 Calculus III.*

PHYS-4900 Independent Study in Physics 1–3 hours

Independent research in the various branches of physics and allied fields of application. Submission and approval of a research proposal must precede registration. *Prerequisite:* permission of instructor. (Fee: \$25/hour)

Science Education (SCED)

SCED-3110 Clinical Teaching in Science—Sp

This course is designed to provide preservice science teachers clinical experiences within grad 7–12 classrooms. Students are assigned to assist cooperating science teachers in facilitating student learning in science content and process skills. Preservice science teachers will plan instructional outcomes, teaching strategies and assessments for the experience and implement them in the local school science classroom. *Prerequisites: teacher education core courses.*

SCED-3120 Teaching Science—Fa 3 hours

Introduces prospective secondary school science teachers to the curriculum, materials, and methods of classroom and laboratory science teaching. Attention will be given to the philosophy and education psychology theories that are currently influencing science education and the methods of instruction that arise from these theories. Teacher education students participate in activities and complete assignments designed to provide experience in science lesson planning, acquisition of classroom and laboratory resources, and strategies of maintaining science laboratory safety. *Prerequisite: admission to the Teacher Education Program.* (Fee \$100)

SOCIAL WORK

Department of Social Work Course Descriptions

Social Work (SWK)

SWK-1100 Total Immersion Experience—Sp

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 course before applying for admission to the program. (Fee: \$60)

SWK-2330 Introduction to Social Work–Fa, Sp 3 hours

Available to all students. This course gives an introduction to the social work profession and a variety of fields of social work practice. It includes a study of the historical development and professionalization of social work. There will be an overview of the integration of faith and practice and the program's poverty focus. Crosslisted as SOC or SWK. (Fee: \$55)

SWK-2350 Field Survey–Fa, Sp 2 hours

Experiential learning through visitation and observation of social workers and interdisciplinary teams in agency settings. Course provides detailed exposure to fields of social work practice, the role of social work, and agency structure. There is a special emphasis on understanding the dynamics of the professional helping relationship given the client's membership in certain groups. Does not count toward social science elective for general education. (Fee: \$40)

SWK-2500 Social Work with Aging Populations–Fa 3 hours

This course is designed to equip the student for beginning professional social work practice with the elderly population. Focus is on the issues related to aging, including wellness in senior living as well as disease. Students will gain knowledge of the varied social work careers that serve the aged as well as agencies that serve the elderly.

SWK-2820 Social Work in Mental Health Settings-Sp 3 hours

This survey course exposes the student to the complexities of social work practice in mental health environments in the context of a biblical worldview. The course teaches how mental health diagnoses are defined and identified. It examines the systems of care that currently exist for the mentally ill, their families, and the community and the roles social workers fill within these systems.

SWK-2840

3 hours

Concepts of Chemical Dependency-Fa, Sp, Su

Available to all students. This course presents an overview of the social, economic, political, legal, spiritual, and ethical considerations concerning the use and abuse of alcohol and other drugs in our culture. Various philosophies and perspectives on drugs and abuse as well as treatment and prevention options for individuals and families will be discussed. Crosslisted as CRJU, PYCH, SOC, or SWK.

SWK-2900 Ethics in the Helping Professions-Sp 3 hours

This course is designed to introduce the student to current issues and ethical dilemmas confronting professional helpers. The course encourages development of critical thinking skills by looking at dilemmas from a multifaceted point of view. 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 3 hours

Human Behavior and the Social Environment-Fa

This course will provide an examination of the social systems approach to understanding human behavior with families, groups, organizations, and communities. Particular focus will be on the relationship among biological, social, psychological, and cultural systems as they affect and are affected by human behavior. *Prerequisite: admission to the social work program.*

SWK-3020 3 hours

Generalist Social Work Practice with Multicultural Groups-Fa, Sp

1 hour

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.* (Fee: \$35)

SWK-3210 4 hours 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. Professional writing skills are further developed. *Prerequisites: admission to the social work program.*

SWK-3430 Junior Seminar I-Fa 1 hour and SWK-3440 Jr Field Experience I-Fa 3 hours

Junior Field Experience I is the placement of students in a poverty focused social service agency. The first four weeks will be one hour orientation sessions designed to inform and equip the student to complete all assignments required before entering their junior experience. Each student will be in field for a minimum of 75 hours, practicing eight hours weekly with clients and agency staff under the supervision of a qualified field instructor. Seminar class will meet once a week for one hour, where the student will receive input from peers and faculty. Prerequisite: admission to the social work program. Corequisite: It is recommended that SWK-3430 and SWK-3440 be taken concurrently. (Fee: \$150)

3 hours

SWK-3450 Junior Seminar II-Sp 1 hour and SWK-3460 Jr Field Experience II-Sp 3 hours

Junior Field Experience II is the placement of students in a poverty-focused social service agency. Each student will be in field for a minimum of 75 hours, practicing eight hours weekly with clients and agency staff under the supervision of a qualified field instructor. Seminar class will meet once a week for one hour where the student will receive input from peers and faculty. The last four weeks will be one-hour orientation sessions designed to inform and equip the student to complete all assignments required before entering their senior field seminar. *Prerequisite: admission to the social work program. Corequisite: It is recommended that SWK-3450 and SWK-3460 be taken concurrently.* (Fee: \$150)

SWK-4210 3 hours

Social Work Practice with Diverse Populations-Fa

This course is the second part of a three-course sequence in acquiring values, skills, and knowledge of generalist social work practice. Intervention strategies for practice with a wide variety of populations will be presented, including people of different religions; women; lesbian, gay, bi-sexual, and transgendered people; children and youth; the elderly; disabled; Appalachian; African Americans; Asian Americans and Pacific Islanders; American Indians; Mexican Americans; Hispanics and Puerto Ricans; and refugees and immigrants. *Prerequisite: admission to the social work program.* (Fee: \$15)

SWK-4220 4 hours Social Work Practice with Communities and Organizations—Sp

Designed to complete the undergraduate program and thus equip the student for beginning professional social work practice. Focus is on competency in social work practice in multiple macro settings as a generalist in problem solving and social change. Prerequisites: admission to the social work program (Fee: \$80)

SWK-4440 Special Topics-Social Work

1–3 hours
Investigation of specific topics in Social Work that have intrinsic

worth and engage student interest.

SWK-4510 Senior Seminar I–Fa

2 h

SWK-4510 Senior Seminar I-Fa 2 hours and SWK-4560 Senior Field Experience I-Fa 6 hours

This course offers students the opportunity to practice social work 16 hours weekly with professional supervision. A seminar is held two hours weekly in which students submit their own practice record for critical study and offer feedback to their peers. Emphasis is placed on the integration of students' social work theoretical knowledge and skills as they enter the profession. Students must complete a minimum of 225 hours in field. *Prerequisite: admission to the social work program. Corequisite: It is recommended that SWK-4510 and SWK-4560 be taken concurrently.* (Fee: \$250)

SWK-4520 Senior Seminar II-Sp 2 hours and SWK-4570 Senior Field Experience II-Sp 6 hours

These courses offer students the opportunity to practice social work 16 hours weekly, with professional supervision. A seminar is held two hours weekly in which students submit their own practice record for critical study and offer criticism to their peers. Emphasis is placed on the integration of the students' social work theoretical knowledge and skills as they enter the profession. Students must complete a minimum of 225 hours in field. Prerequisite: admission to the social work program. Corequisites: It is recommended that SWK-4520 and SWK-4570 be taken concurrently. (Fee: \$250)

SWK-4610 Statistics for Social Workers–Fa

This course provides an introduction to the conceptual and quantitative tools used to describe and interpret data in the conduct of social work practice and research. Students learn how to select, calculate, analyze, and interpret statistics applicable to common social work situations related to direct practice, administration and planning, and policy making. Students will be able to recognize the statistical impact that race, gender, age, sexual orientation and other relevant variables have on many psycho-social-spiritual variables during computer labs using SPSS statistical software and current GSS database. Prerequisite: admission to the social work program or permission of the instructor; students must have satisfied Cedarville's mathematics proficiency requirement before enrolling.

SWK-4620 Social Work Research Methods-Sp 3 hours

Designed to survey the basic process of research methods as practiced in the social sciences. Underlying principles of science and logic are emphasized and special attention is directed toward the recognition of common sources of error and bias in the implementation and interpretation of research studies as it affects the outcomes of research utilization. Students will be better prepared to recognize the impact of special population variables (age, race, gender, etc.) on the research process. *Prerequisite:* admission to the social work program.

SWK-4950 1–3 hours

Independent Study in Social Work

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. *Prerequisite: permission of the instructor.*



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Financial Information

University Financial Operation Policy

The University keeps the application fee, tuition, room, board, and other fees as low as possible to be consistent with responsible operation. The revenue from students does not cover the total cost of operation.

Individuals and churches who desire to share in the preparation of young people for effective Christian service in all walks of life partially support the University. Some funds are received from interested businesses, industries, and foundations. Student costs as stated are subject to change upon reasonable notification by the University.

Student Costs

Tuition — Undergraduate

| Block tuition (12–17 credits)\$13,955 Under block rate per credit (1–11.5 credits)\$1,056 Block overload rate per credit (17.5 credits and above)\$722 Pharmacy courses (PPHR) tuition per semester credit\$966 |
|--|
| Tuition — College Now Per semester credit\$166 |
| Audit tuition Within block no additional charge |
| Under block or over block rate per credit\$427 |
| Test-out fee per course \$427 |
| · |
| Fees |
| Application fee\$30 |
| Board per semester |
| Group A Meal Plans - fall/spring1,549 |
| Group B Meal Plans - fall/spring1,430 |
| Car registration fee - annual100 |
| Drop/add (course) fee5 |
| Graduation fee50 |
| Late payment fee |
| Late registration50 |
| Non returned/Late/Lost room key75 |
| New student fee |
| Commuting student – fall semester90 |
| Commuting student – spring semester |
| Resident student – fall semester |
| Resident student – spring semester |
| Online course technology fee per credit |
| Returned item fee |
| *Reservation deposit for new and transfer students |
| Room fall/spring per semester |
| Student fee per semester |
| Full-time students |
| Part-time students |
| Students taking 5 credits or less AND distance learners 0 |
| Transcript fee |
| *refundable upon withdrawal |
| |

Senior citizens may enroll in courses for credit or no credit on an available space basis at no tuition charge. Senior citizens are those individuals 62 years of age or older who are considered to be retired according to the Social Security Administration. Please complete a form obtained from the Cedarville University Human Resources Department. Call Ext. 7885 on campus.



Summary of Costs — Undergraduate

Institutional Costs

Miscellaneous Costs

Financial aid may be available to help defray costs. See the Financial Aid section of this catalog for additional information concerning available funds and application procedures.

Financial Registration Policy

To enable the University to be responsible in meeting its financial responsibilities, students must make provision for the payment of their bill on the due dates established by the University each semester. A student's registration for courses indicates a commitment to pay for related charges as stated in the University catalog.

The following payment plan schedule was established to help students care for this responsibility:

| Fall 2016 | Spring 2017 |
|---------------|---|
| Aug. 4, 2016 | Jan. 5, 2017 |
| Sept. 1, 2016 | Feb. 1, 2017 |
| Oct. 1, 2016 | March 1, 2017 |
| Nov. 1, 2016 | April 1, 2017 |
| | Aug. 4, 2016 Sept. 1, 2016 Oct. 1, 2016 |

A student is not considered financially registered until at least the first one-fourth payment has been received by the Cashiers Office. Students who do not make financial arrangements for the first payment due on their University bill will not be permitted to attend the University. Failure to make subsequent payments could result in the loss of dining hall and library privileges and the withholding of grades and online registration.

Financial Information Financial Information

Making Payment

Students and parents may pay their University bill using several payment methods, including check, cash (in person), debit/credit card with a convenience fee, or online through our student finance E-commerce portal. For your protection, please do not mail cash.

Please send payments made payable to:

Attn: Cashiers Office Cedarville University 251 N. Main Street Cedarville, OH 45314

*Please remember to include your student ID# and student name on all checks. For online payments, please visit the student finance SelfService portal.

For more information on payment options, visit the Cashiers Office website at **cedarville.edu/cashiers**.

Notification of the University Bill

Students who preregister will receive a billing notice based on their preregistration schedule 20 to 30 days before the semester begins. Students are responsible for making their payments by the due dates. Monthly notices are sent via email to the student's Cedarville University email. The student can request the invoice/statement be sent to additional email accounts. Paper invoices/statements can also be requested for a \$3/month fee. You may view your student account history at any time by going to the student SelfService portal and selecting "View your statement."

Invoices and Statements Online

Students may view their student account activity, and most recent transactions online using SelfService. Students may also assign their parents a password, giving them access to their student account activity. Parents can view this information by logging onto SelfService through their own Internet service provider.

Payment Penalties

Students who fail to make acceptable payment arrangements within a reasonable period of time will be denied access to the dining hall and library until such arrangements are made. Students who do not make payments by the stated due dates will be charged \$25. Students with unpaid balances at the end of the semester may be denied grade reports, transcripts, diploma, or enrollment in the next semester. Students with past due accounts will also be responsible for any fees incurred in the collection of their past due account.





Interest Rates

An annual interest rate of 13 percent (1.083 percent per month) will be charged during the academic year on accounts of current students. An annual interest rate of 15 percent (1.25 percent per month) will be charged during the academic year on accounts of students no longer enrolled and on all student accounts during the summer months. (May–July)

Prepayment Incentive Credit Plan (PIC-Plan)

This plan enables a student to earn interest on a 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 go to **cedarville.edu/cashiers** for the maximum deposit amount and the current interest rate.

Withdrawals From a Student Account

Students may withdraw cash from their student account during the semester, provided they have a credit balance. Cash withdrawals may not exceed \$100 per week. No more than two cash withdrawals may be made per week. Withdrawals of amounts greater than \$100 are issued by EFT deposit; requests can be made by using CedarInfo by selecting "Request a payment from your student account" under Financial Transactions. Refunds are issued within three to four business days of the request.

New Student Reservation Deposit Refund

A reservation deposit must be submitted by new students as an indication of the intention to enroll. The amount of the deposit is \$250. This money will be credited to the student's deposit account. A student must have a reservation deposit in order to be registered for courses.

The reservation deposit is fully refundable if the request for refund is received in writing before the reservation deposit deadline. No refunds are available after the deposit deadline date. Reservation deposit deadlines are as follows:

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

Continuing Student Reservation Deposit Refund

Full (100 percent) refunds will be made to continuing students who notify the University by June 1 of their intent to withdraw. If a continuing student notifies the University between June 2 and July 1 of their intention not to return fall semester, \$150 of their deposit will be refunded. No refunds will be made after July 1.

Withdrawal Refunds

Tuition

Students withdrawing from the University before the end of a semester may request a refund from the Cashiers Office. Refunds may be requested anytime after the beginning of a semester. The effective date of the withdrawal from the University is the last day of class attendance as determined by the Office of the Registrar.

Processing of refunds will begin the third week of the semester. Tuition refunds for withdrawal are granted on this schedule:

Tuition Refund Schedule

| Iuition Retund Schedule | | |
|-----------------------------------|-----------------|------------|
| | Withdraw | Withdraw |
| 14–16-Week Class | from University | from Class |
| | 100% | 100% |
| Week* class begins | | 75% |
| Week* 1 (first full week) Week* 2 | 75% 50% | 75% 0% |
| Week* 3 | | 0% 0% |
| week" 3 | 25% | 0% |
| 12-Week Class | | |
| 2 weekdays** from start of class | 100% | 100% |
| 6 weekdays** from start of class | 75% | 75% |
| 10 weekdays** from start of class | 50% | 0% |
| 14 weekdays** from start of class | 25% | 0% |
| • | | |
| 8-Week Class | | |
| 2 weekdays** from start of class | 100% | 100% |
| 4 weekdays** from start of class | 75% | 75% |
| 7 weekdays** from start of class | 50% | 0% |
| 9 weekdays** from start of class | 25% | 0% |
| | | |
| 4-Week Class | | |
| 1 weekday** from start of class | 100% | 100% |
| 2 weekdays** from start of class | 75% | 75% |
| 3 weekdays** from start of class | 50% | 0% |
| 5 weekdays** from start of class | 25% | 0% |
| For classes 3 weeks or less | | |
| 2 weekdays** from start of class | 100% | 100% |
| 3 weekdays** from start of class | 0% | 0% |
| o wookaayo Hom olari or olaco | 0 / 0 | 0 70 |
| All other Classes | | |
| 4% from start of class | 100% | 100% |
| 10% from start of class | 75% | 75% |
| 17% from start of class | 50% | 0% |
| 23% from start of class | 25% | 0% |
| | | |

^{*}A week ends at the close of business (5:00 p.m.) on Friday.

Course offerings changed or deleted by the University entitle a student to a full refund of tuition and related course fees. Students withdrawing from a course or courses will be granted a full tuition refund to apply toward courses added. If the new total hours are fewer than the original total, the above refund schedule will apply.

Board/Meal Plan

Board charges will be refunded on a prorated weekly basis. Board weeks begin on Sunday and end on Saturday. Board refunds are computed based on the last day of residency. Board contracts are required for all students living in the residence halls. Students may choose from seven available meal-plan options.

Room

Rooms are reserved for each student for an entire semester. No refund of room rent is made except in cases of severe illness or incapacity. Written confirmation of the illness or incapacity must

be provided by the director of University Medical Services or a physician. Room rent will then be refunded on a prorated basis.

Other Fees

No other fees are refundable except for withdrawal within the first calendar week of the semester.

Return of Title IV Funds, Policy and Regulations

The term "Title IV Funds" refers to the Federal Financial Aid Programs authorized under the Higher Education Act of 1965 (as amended). The following are considered Title IV programs at Cedarville University:

- Unsubsidized Federal Direct Loan
- Subsidized Federal Direct Loan
- Federal Perkins Loan
- Federal Direct Plus Loan (Parent)
- Federal Pell Grant
- Federal Supplemental Grant (FSEOG)
- Federal TEACH Grant
- Iraq and Afghanistan Service Grant

A student's federal financial aid eligibility must be recalculated and these regulations apply when a student fails to complete the period of enrollment for which he/she was charged due to one or more of the following situations:

- · Change in a student's schedule, which results in fewer credit
- · Course or courses dropped or withdrawn
- Cancellation of a class by the college
- Total withdrawal or expulsion from the college

As the recipient of Title IV aid, it is the student's responsibility to earn the aid provided for their period of enrollment. Students who find it necessary to withdraw must go to the registrar's office to begin the official withdrawal process.

Please refer to the online catalog for determination of the student's withdrawal date.

Title IV aid is earned in a prorated manner on a daily basis up to the 60% point in the semester. Federal regulations state that a student must attend past the 60% point of the semester in order to earn 100% of their federal financial aid. Students are issued financial aid before 100% of their aid is earned. This is in "good faith," meaning that students are expected to follow through by attending and completing all classes.

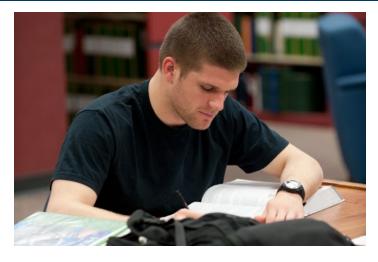
When a recipient of Title IV aid withdraws from an institution during the semester in which the recipient began attendance, the institution must determine the amount of the Title IV grant or loan assistance (not including Federal Work Study) that the student earned as of the student's date of withdrawal. Federal Regulations mandate that a school perform a "Return to Title IV" calculation for federal aid recipients who withdraw from all classes or receive Financial Aid unearned 'F'. This calculation determines how much federal aid a student has earned up to the date of withdrawal. If more assistance is received than what is earned, the unearned funds must be returned. The requirements for the "Return to Title IV" calculations are separate from Cedarville University's refund policy.

In accordance with federal regulations, when financial aid is involved, return of T-IV funds are allocated in the following order:

- Unsubsidized Federal Direct Stafford Loan
- Subsidized Federal Direct Stafford Loan 2.
- Federal Perkins Loan 3.
- 4. Federal Direct PLUS Loan
- Federal Pell Grant 5.
- Iraq and Afghanistan Service Grant 6.
- Federal Supplemental Educational Opportunity Grant (FSEOG)
- Other Title IV Assistance

^{**}A weekday is defined as Monday through Friday. A day ends at 5 p.m., Eastern Standard Time.

Financial Information Financial Information



Responsibility of the University

Cedarville University Office of Financial Aid responsibilities in regard to the Return of Title IV funds include

- Providing each student with information given in this policy.
- Identifying students who are affected by this policy and completing the Return of Title IV Funds calculation for those students.
- Returning any Title IV funds that are due to the Title IV programs as soon as possible, but no later than 45 days from the determination of a student's withdrawal.
- Offering a post-withdrawal loan disbursement within 30 days
 of the date the school determined the student withdrew and
 issuing a post-withdrawal grant disbursement within 45 days
 of the date the school determined the student withdrew, if a
 student has eligibility for the Title IV funds.
- Though Cedarville University is not required to take attendance, instructors are expected to monitor enrollment regularly and notify the registrar's office of non-attendance.
- The registrar's office contacts the student and the instructor to determine the last date of academic related activity.

Responsibility of the student

The student's responsibilities in regard to the Return of Title IV Funds include

- Returning to the Title IV programs the dollar amount of any funds disbursed directly to the student subsequently determined to be ineligible via the Return of Title IV Funds calculation.
- Official withdrawal information is found in the online catalog (page 30).

Special Providions for Books and Supplies

Federal regulations (34 CFR 668.164(i))dictate that if an undergraduate student has a T-IV credit balance on their account 10 days prior to the semester, they are able to use their credit balance amount to obtain their books and supplies through the 7th day of the payment period. The school may use the actual costs of books and supplies or allowance for those materials used in estimating the student's cost of attendance for the period.

A student may opt out of the book voucher by simply not utilizing the established process in place. If a student does opt out, your T-IV credit balance will be issued to you through the normal process.

In addition, Cedarville University allows all undergraduate students to receive a voucher for books and supplies. There is a \$1,000 cap on the limit. If a student has an invoice above this amount, on a case-by-case basis, with Cashier authorization, the limit may be increased. The timeframe to use the voucher is from the first week of August through the first week of September.

Veterans Training Benefits and Dependents Educational Assistance

Cedarville University is approved under Title 38, Chapters 30, 31, 32, 33, 35, and 1606, U.S. Code for Education of Veterans and Their Dependents. Students under Chapters 30, 32, 35, and 1606 are required to pay the school for all charges. The Veterans Administration in turn pays them a monthly allowance based upon their training load. Veterans under Chapter 31 are paid a monthly allowance and the Veterans Administration pays the school for tuition, fees, books, and supplies. Cedarville University is a participant in the VA Yellow Ribbon Program. Those students eligible to receive Chapter 33 Post-9/11 benefits may qualify to receive benefits through the VA Yellow Ribbon program.

Inquiries concerning eligibility should be directed to the contact office of a Veterans Administration Regional Office or by calling (888)442-4551. Students planning to study under one of the education laws should receive approval prior to enrolling. A Veterans Administration training officer will contact the University in 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

Spring Semester:

For Option Deferred Payment Plan for Veterans (under Chapters 30, 31, 32, 33, and 35) receiving the Educational Assistance Allowances, consult the Office of the Registrar.

Payments by veterans receiving their Educational Assistance Allowance checks one month behind will be as follows:

Fall Semester: 1st payment by 10/4

2nd payment by 11/1 3rd payment by 12/1 Final payment by 1/1 1st payment by 2/4

2nd payment by 3/1

3rd payment by 4/1 Final payment by 5/1

A late payment charge of \$25 is applicable for accounts unpaid after the payment due date.

Veterans receive eight monthly VA checks that must pay for eight deferred payments on the semester system.



Financial Aid

When completing the FAFSA, the Title IV Code for Cedarville University is **003025**.

General Information

Cedarville University offers a variety of financial aid programs to assist students with education-related expenses. Although Cedarville University supports the premise that the primary responsibility for financing a college education rests with the student and family, aid programs are available to supplement personal resources.

Some of the financial aid available at the University is considered to be *need-based aid*. Students are asked to complete and submit the Free Application for Federal Student Aid (FAFSA). It is not necessary to file your federal taxes before completing your FAFSA as estimated data may be used. An analysis of the family's financial data is performed and the results are used to determine the eligibility for need-based assistance. For filing online, obtain a PIN number for **both** the parent and student at **pin.ed.gov** and complete the FAFSA at **fafsa.ed.gov**.

In addition to *need-based aid*, the University also offers *merit-based aid* to students who demonstrate recognized achievement or talent. Merit scholarship categories include academic, leadership, athletic, music, forensics, theatre, and debate.

Financial Aid serves as a resource center to assist students and their families in exploring alternative sources of educational funding. The financial aid homepage has direct links to several scholarship databases. Students are encouraged to investigate privately-funded scholarships through the use of the Internet and accessing **cedarville.edu/finaid**.

Students should advise Financial Aid when they receive additional assistance from sources other than Cedarville University. This assistance will be considered when preparing award packages and may result in the revision of a previously prepared package.

A financial aid award notification will be provided to students after reviewing completed application data and after a student is accepted for admission to Cedarville University. Financial aid is applied for and awarded on a yearly basis. Aid applicants must continue to meet program qualifications in order to retain eligibility.

All questions may be directed to Financial Aid at 937-766-7866 or 1-800-444-2433. Visit Cedarville's financial aid website at **cedarville.edu/finaid** and the FAFSA website at **fafsa.gov.**

Institutional Grants and Scholarships

All awards are based on full-time enrollment (minimum of 12 degree-seeking credit hours). Students who enroll for fewer than 12 hours will have their awards removed. For complete information, see **cedarville.edu/scholarships**.

Academic Scholarships

- President's Scholar Award Students who have a minimum 31 ACT (1360 SAT) and a minimum 3.75 GPA; or the student is identified as a National Merit or National Achievement Finalist/Semi-finalist. The award amount is up to \$12,000.
- Provost's Scholar Award Students who have a minimum 27 ACT (1210 SAT) and a minimum 3.5 GPA. The award amount is up to \$9,000.
- Dean's Scholar Award Students who have a minimum 25 ACT (1130 SAT) and a minimum 3.2 GPA. The award amount is up to \$7,000.
- Faculty Scholar Award Students who have a minimum 22 ACT (1020 SAT) and a minimum 3.0 GPA. The award amount is up to \$4,000.

Other Grants

 CU Access Grant – Students who have financial need according to FAFSA. The award amounts are variable.

New Initiatives

- One Campus Scholarship The One Campus Scholarship is awarded to students seeking to enhance the Cedarville community through their personal experience and appreciation for ethnic and cultural diversity. An application is required.
- Presidential Leadership Award Celebrating Cedarville's strong support for the local church and those who invest their lives in full-time ministry, this scholarship is awarded to selected students whose parent is in full-time ministry and who demonstrate excellent Christian character and leadership abilities. An application is required.

Transfer Student Aid

For complete information see cedarville.edu/transfer.

Department Scholarships

- Athletic Contact Athletics or coach
- Debate Team or Speech Team Contact the Department of Communication
- Music Contact the Department of Music and Worship
- Pharmacy Contact the School of Pharmacy
- Theatre Contact the Department of Art, Design, and Theatre
- Worship Contact the Department of Music and Worship

State Grant Programs

Ohio College Opportunity Grant

Ohio residents who have an expected family contribution of \$2,190 or less and family income less than \$75,000 may be eligible for the Ohio College Opportunity Grant. The FAFSA filing deadline is October 1.

For additional information about all the Ohio student aid programs visit the Ohio Department of Higher Education website at ohiohighered.org.

Ohio National Guard Tuition Assistance Program

This program assists Ohio National Guard members who are full-time students, at least 17 years old, and enlisted for a period of six years. Up to eight semesters of instructional and general fees will be paid for the student. After basic and specialty training, guardsmen meet one weekend a month and two weeks during each summer. In addition to the tuition assistance, the time spent on duty is paid according to rank. Both men and women are accepted into this program, and proof of financial need is not a requirement. For more information, call collect 937-323-6704 or write to: Ohio National Guard, Educational Opportunities, 2825 West Granville Rd., Worthington, OH 43085.

Ohio War Orphans Scholarship

This scholarship is awarded to students who are children of deceased or disabled veterans. The student must be enrolled full-time and be making satisfactory academic progress. For more information, contact the Ohio Department of Higher Education, Student Assistance Office, Ohio War Orphans Scholarship, 3600 State Office Tower, 30 East Broad Street, Columbus, OH 43215.

State Grant Refund Policy

Students who qualify for state grant funds must be registered for at least 12 credit hours per semester in order to receive benefits. Students withdrawing or dropping below full-time status during the semester will have their grant payments adjusted according to grant refund policy. Questions pertaining to refund policy should be directed to Financial Aid.

Financial Information Federal Grants

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

Federal Grants

Federal Pell Grant

A student who is a United States citizen, or who is in the United States for other than a temporary purpose and intends to become a permanent resident, or who is a permanent resident of the Trust Territories of the Pacific Islands or of the Northern Mariana Islands, may be eligible for a federal grant through the School of Education. All students with financial need are encouraged to apply for this grant by using the FAFSA.

Students who meet the Pell eligibility requirements and have an expected family contribution of \$5,198 or less as calculated on the FAFSA are eligible for a Pell Grant.

All awards are based on full-time enrollment (12 hours or more). Students who enroll for fewer than 12 hours will have their awards prorated according to the following schedule:

12 hours or more = Full award

9-11.99 hours = 3/4 award

6-8.99 hours = 1/2 award

1-5.99 hours = Less than half-time award

Federal Supplemental Educational Opportunity Grant (SEOG)

A Federal grant for the School of Education that is awarded to students with exceptional need. Exceptional need is described as being eligible to receive a Pell grant. However, due to limited funding, being Pell-eligible does not guarantee SEOG eligibility.

Teacher Education Assistance for College and Higher Education Grant (TEACH)

The TEACH Grant provides funds to students who intend to teach in a public or private elementary or secondary school that serves students from low-income families. The TEACH Grant has conditions which must be met, otherwise the grant is converted into a direct unsubsidized Loan. The following website provides the full details for the TEACH Grant:

cedarville.edu/TEACH.

United States Military Scholarships Army Scholarships

Two, three, and three and one-half year scholarships are available for students who enroll in Army ROTC. These scholarships pay all tuition, fees, and textbooks, plus \$250–\$400 per month for 10 school months per year. For additional information, contact the professor of military science at Central State University, Wilberforce, OH 45384 (937-376-6657 or 937-376-6279), or call Nicholas Miller, Assistant Registrar at Cedarville University, at 937-766-7710.

Army National Guard Scholarships

These scholarships pay up to \$1,000 per school year and are available for those who qualify. Additional information pertaining to these scholarships is available from the professor of military science at Central State University, or from Nicholas Miller, Assistant Registrar at Cedarville University, at 937-766-7710.

Air Force Scholarships

Air Force ROTC scholarships are available, paying for the cost of tuition, fees, and textbooks, plus \$150 per month for 10 school months, to students who demonstrate academic and leadership potential. Students interested in Air Force ROTC should contact the Department of Aerospace Studies, Wright State University, Dayton, OH 45435 (937-775-2730), or call Nicholas Miller, Assistant Registrar at Cedarville University, at 937-766-7710.

Donor-Funded Scholarships

Through the generosity of alumni, faculty, staff, and friends, more than 250 donor-funded scholarships are available to Cedarville students. These scholarships are established and funded by individuals who create a scholarship and determine award criteria. Candidates must complete the Free Application for Federal Student Aid (FAFSA) and/or a scholarship application or essay to be considered for these awards. The department of financial aid or committees from academic and University departments typically select the recipients. Review the list of donor-funded scholarships online at cedarville.edu/donorfunded.

The personal connection between donors and the students they support plays a significant role in the continued funding of these scholarships. Recipients are asked to express their thanks to their donors in the following ways:

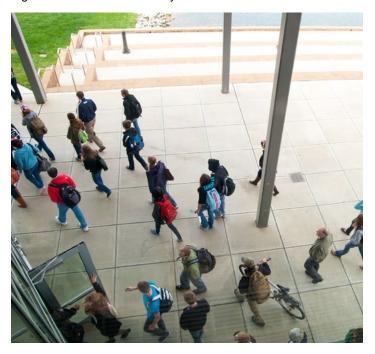
- Send a timely letter of appreciation to your donors.
- Attend the Honors Day luncheon in April (if applicable).
- Attend the scholarship reception and Legacy Banquet on Homecoming weekend.

Federal Direct Stafford Loans

Federal Subsidized and Unsubsidized Stafford Loans

Federal Stafford Student Loan funds are available to dependent or independent undergraduate students. The federal government will subsidize (pay) the interest on subsidized loans while the student is in school and during a six month grace period following withdrawal or graduation. For detailed information see cedarville.edu/Loans.

In addition, if a student is enrolled for less than a full academic year immediately preceding graduation, the annual loan limit may be prorated based on the number of credits remaining to complete the program of study. Specific questions relating to the federal regulations outlined above may be directed to Financial Aid.



Federal Parent PLUS Loans

Federal PLUS loan funds are available for creditworthy parents to borrow on behalf of their dependent students. This loan program is not based on financial need and may be used to replace all or part of the expected family contribution. Parents may borrow up to the cost of education less any financial aid the student is receiving. The U.S. School of Education, who serves as the lender, generally deducts origination fees that are determined annually. Repayment begins within 60 days following the final disbursement of the loan.

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.

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 percent interest on the unpaid balance of the loan principle.

Student Employment Federal Work Study

This federally funded program is designed to provide work opportunities for University students. Students in this program may qualify for up to 20 hours of work a week during the academic year, providing they show a demonstrated need based on their FAFSA. Actual hiring is handled by the department supervisors who will employ the students. As with campus employment, actual job placement, number of hours worked, and total dollar amount earned cannot be guaranteed by Financial Aid. Community service positions are also available in this program. Visit cedarville.edu/studentemployment for more information.

Campus Employment

Although unable to guarantee actual job placement, the number of hours worked, or total dollar amount earned, Cedarville University assists needy students by recommending them for part-time employment. Students are employed in various part-time jobs on campus such as maintenance, dining hall, housekeeping, and others.

Part-time student employment is not restricted to upperclassmen and is encouraged at all levels.

Off-Campus Employment

Because of the University's reputation for attracting quality students, many area employers contact Career Services to employ students on a part-time basis. Though no formal restrictions pertain to this employment, students are encouraged to limit their working hours to approximately 20 hours per week to ensure sufficient time to study.

Standards of Satisfactory Academic Progress for Recipients of Financial Aid Policy

Financial aid recipients at Cedarville University are required to achieve satisfactory academic progress to be eligible to continue to receive federal financial assistance. The purpose of this policy is to define the requirements for satisfactory academic progress as it pertains to recipients of Title IV federal aid programs.

See **cedarville.edu/UG_SAP_Policy** for complete information related to Satisfactory Academic Progress.

Student Rights

- You have the right to know what financial aid programs are available at your school.
- You have the right to know the deadlines for submitting applications for each of the financial aid programs available.
- You have the right to know how financial aid will be distributed, how decisions on that distribution are made, and the basis for these decisions.
- 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.
- You have the right to know how much of your financial need as determined by the institution has been met.
- You have the right to request an explanation of the various programs in your student aid package.
- 8. You have the right to know your school's refund policy.

Student Responsibilities

- You must complete all application forms accurately and submit them on time to the right place.
- You must provide correct information. In most instances, misreporting information on financial aid application forms is a violation of law and may be considered a criminal offense that could result in indictment under the U.S. Criminal Code.
- You must return all additional documentation, verification, corrections, and/or new information requested by either Financial Aid or the agency to which you submitted your application.
- 4. You are responsible for reading and understanding all forms that you are asked to sign and for keeping copies of them.
- You must accept responsibility for all agreements that you sign
- You must perform the work agreed upon in accepting a University employment award.
- You must be aware of and comply with the deadlines for application or reapplication for aid.
- 8. You should be aware of your school's refund procedures.

All schools must provide information to prospective students about the school's programs and performance. You should consider this information carefully before deciding to attend a school.



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Board of Trustees

Cedarville University is governed by an autonomous, self-perpetuating Board of Trustees. Board members are selected for three-year terms. One-third of the Board members are eligible for re-election each year. The executive committee of the Board consists of the Chair, Vice Chair, Secretary, Treasurer, chairs of the standing committees, and the President of the University. The Board meets in January, May, and October.

Officers

William Bernhard (2019), Chair Lorne Scharnberg (2018), Vice Chair David Gower (2016), Secretary David Dykema (2018), Treasurer

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Term of Office Ending June 2018

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Ruth Kempton, Lititz, Pennsylvania
Irwin Olson, Mesa, Arizona
Bill Smith, Allegan, Michigan
Al Stevens, Moorestown, New Jersey
Robert Sumner, Lynchburg, Virginia

Administration

Cabinet

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

Alan Geist, Athletic Director. B.A., Cedarville University, 1983;M.S.S., United States Sports Academy, 1989; Ph.D., The Ohio State University, 2001. At Cedarville since 2005.

Richard J. Melson: Vice President for Advancement. B.A., Murray State University, 1993; M.C.M., Southern Baptist Theological Seminary, 1995; Ph.D., Dallas Baptist University, 2014. At Cedarville since 2016.

Loren Reno, Vice President for Academics, Chief Academic Officer; Professor of Management. B.A., Cedarville University, 1970; M.S., University of Southern California. At Cedarville since 2012

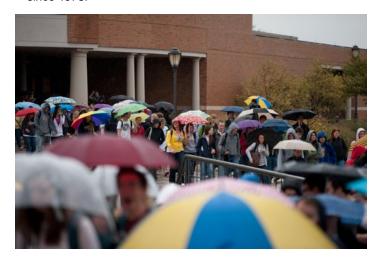
Christopher Sohn, Vice President for Business, Chief Financial Officer. B.A., Purdue University, 1989; M.B.A., Indiana University, 1996. At Cedarville since 2012.

Janice Supplee, Vice President for Enrollment Management and Marketing. B.A., Cedarville University, 1986; M.B.A., Wright State University, 2001; Ph.D., University of Nebraska, 2014. At Cedarville since 1995.

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

Chancellor

Paul 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.



Other Faculty

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

Thomas Mach, Assistant Vice President for Academics; Professor of History; Director of the Honors Program. Education: B.A., Cedarville University, 1988; M.A., Cleveland State University, 1989; Ph.D., University of Akron, 1996. At Cedarville since 2000.

Mark McClain, Dean of Graduate and Extended Learning Programs; Professor of Chemistry. 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.

David Rotman, Chief Information Officer; Associate Professor of Information Technology Management. 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.

Library

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

Kristi Coe, Health Sciences Librarian; Assistant Professor of Library Science. B.S.N., Cedarville University, 1995; M.S., The Ohio State University, 2011. At Cedarville since 2011.

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.

Joseph Fox, Instructional Services Librarian; Assistant Professor of Library Science. B.A., Western Connecticut State University, 1992; M.L.I.S., San Jose State University, 2010. At Cedarville since 2011.

Lynne Funtik, Information Services 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 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.

Sharon Kerestes, Curriculum Materials Center Librarian; Assistant Professor of Library Science. B.A., University of Pittsburgh, 1991; M.Ed., Wright State University, 2004. At Cedarville since 2012.

Gregory Martin, Digital Commons Director; Associate Professor of Library Science. B.M., Wright State University, 1972; M.M., Wright State University, 1979; M.L.I.S., Kent State University, 2005. At Cedarville since 2002.

Joshua Michael, Director of Library Public Services; Assistant Professor of Library Science. B.A., Cedarville University, 1999; M.Div., Northwest Baptist Seminary, 2004; M.L.I.S., University of Pittsburgh, 2007. At Cedarville since 2013.

Administrative Staff

University Registrar

Fran Campbell, University Registrar. B.A., Cedarville University, 1972; At Cedarville since 1981.

Office of Student Development

Mindy May, Director of Student Development. B.A., East Texas Baptist University, 2004; MAMFC, Southwestern Baptist Theological Seminary, 2008; MACE, Southwestern Baptist Theological Seminary, 2008; Ph.D. (candidate), Southwestern Baptist Theological Seminary. At Cedarville since 2014.

Brad Smith, Associate Dean of Students. B.S., Liberty University, 1984; M.A., Liberty University, 1990. At Cedarville since 2000.

Correspondence

A complete listing of departments along with contact information can be obtained online at **cedarville.edu/departments**.

Cedarville University 251 N. Main St. Cedarville, OH 45314 admissions@cedarville.edu 1-800-CEDARVILLE (233-2784)



Appendix Doctrinal Statement

Doctrinal Statement

All trustees, administrators, full-time faculty, and staff support and adhere to the doctrinal statement and lifestyle commitment of Cedarville University.

We believe that God has revealed Himself truthfully to humans through the inspired texts of the Scriptures. These canonical texts, Old and New Testaments, are inerrant, infallible, and reliable in detail and in theological content. The Bible, as the sufficient Word of God, has authority over the Church and the Christian's life and thought. As divinely inspired texts, the meaning of the biblical authors is to be discerned through careful, textual interpretation guided by the Spirit. 1 Corinthians 2:10–14; 2 Timothy 3:16,17; 2 Peter 1:19–21.

We believe in one God-eternal, all-powerful, all-knowing, and always present, existing as three Persons — Father, Son, and Spirit, one in nature, attributes, power, and glory. God will be glorified by all creation and is worthy of worship from all humans. Genesis 1:1,26; Psalm 104, 148; Proverbs 30:4; Matthew 28:19; Mark 12:29; John 1:1–4, 14, 18; Acts 5:3,4; 2 Corinthians 13:14; 1 Timothy 2:3–4.

We believe that the Son, eternally begotten by the Father, through the Spirit was also born of the virgin, Mary. Therefore, Jesus, the Son, is both fully God and fully human. As the Word made flesh, the Son is the perfect mediator between God and humanity. Proverbs 8:22–31; Isaiah 7:14; Matthew 1:18–25; Luke 1:26–35; John 1:14–18, 5:16–29; Philippians 2:6–11; 1 Timothy 2:5–6; Hebrews 1:1–14.

We believe that the Scriptures provide a literal and historical account of God's creation of all things. The climax of the six days of creation was the special, immediate, and personal creation of human life. The first humans, Adam and Eve, were directly created, not evolved from previous life forms. God created humans, male and female, in His image. Human life, sexual identity and roles are aspects of God's creative design. From creation, marriage is a covenant between a man and a woman that should be marked by sexual purity, by sacrificial male leadership, and by recognizing the divine blessing of children, including preborn children. Adam and Eve, though created in perfection, sinned, warranting physical death, spiritual death, and eternal separation from God. Consequently, all human beings are born with a sinful nature, and are sinners in thought, word, and deed. Genesis 1:1-27; 2:7-25; 3:1-24; Psalm 127:3-5; Romans 1:18-32; 3:10-19; 5:12-19; Ephesians 5:22-33; Colossians 3:18-19.

We believe that the Lord Jesus Christ died for our sins according to the Scriptures as the representative and substitutionary sacrifice and rose again for our justification. Only those who repent and believe in Him are justified on the grounds of His shed blood and are saved by grace through faith wholly apart from human merit and works. Genuine believers, the elect, are the adopted children of God and are eternally secure through the work of God. John 1:12,13; 3:3–16; 5:24; 10:28,29; Acts 13:39; 16:31; Romans 3:21–28; Ephesians 1:3–14; 2:8–10; Philippians 1:6; Titus 3:3–8; 1 Peter 1:23; 2 Peter 1:4–11.

We believe that the Holy Spirit is a divine Person, equal in nature with God the Father and God the Son. The Spirit had an active role in Creation and in the inspiration of the Scriptures. He convicts sinners, guides humans into truth, and regenerates believers to new life, baptizes them in Christ and serves as their assurance to eternal life. Believers mature in their faith through the work of the Spirit, who produces His fruit in them. The gifts of the Spirit are for ministry to the body of Christ and the "sign

gifts" are not intended to be a pattern for today. Psalm 139:7–12; John 14:16,17; 16:13,14; Romans 8:9; 1 Corinthians 6:19; 12:8–10, 28–30; 14:1–40; Galatians 5:22–23; Hebrews 2:3–4.

We believe that the local church is a gathered congregation of believers, associated by covenant, practicing self-governance, and observing the ordinances of believer's baptism by immersion and the Lord's Supper. The church is to be committed to the authority of the Word of God in matters of doctrine and practice. God calls certain men to be pastors, providing spiritual leadership for the church. Deacons, likewise, minister to the church body through specific acts of service. We believe that the universal Church consists of all who have saving faith in Christ. As the body of Christ, the Church is to fulfill His mission of making disciples throughout the world. Matthew 18:15–17; 28:18–20; 1 Corinthians 1:2; 12:12–28; 7:17; 11:16; Ephesians 1:22–23; 2:14,15; 4:11–16; 5:23–32; 1 Timothy 2:12; 3:1–15.

We believe that every believer should walk by the Spirit and engage in practices that stimulate spiritual maturity. Christians grow as they worship and serve the Lord, study the Scriptures, pray, and live in fellowship with other believers. Christians are also to flee evil influences and practices, which hinder a Spirit-filled life. Due to the commission of Christ and the urgency of the Gospel, all believers are to engage in Gospel conversations, to live God-honoring lives, and to work continuously to spread the Gospel to their neighbors and the nations. Matthew 5:16; 28:19–20; Mark 16:15; John 17:18; 20:21; Acts 1:8; Romans 6:1–14; 12:1; 2 Corinthians 5:20; 6:14–7:1; Galatians 5:16–25; Colossians 3:1–17; James 4:4; 1 John 2:15–17.

We believe in the literal, bodily resurrection of the crucified Lord, His ascension into heaven, His present life there as our high priest and advocate, and His rapture of the church before the Tribulation. He will return bodily and visibly to the earth at the end of the Tribulation to establish His millennial kingdom, and to reign as the supreme Lord over all nations. Luke 24:36–43; John 14:1–6; 20:24–29; Acts 1:9–11; 1 Corinthians 15:12–58; 1 Thessalonians 4:13–18; 5:1–11; Revelation 1:4–7; 19:11–16; 20:6.

We believe in the bodily resurrection and judgment of all the dead. Those people who are in Christ will be saved to a life of eternal glory with God. Unbelievers will suffer judgment and eternal punishment in the lake of fire. Matthew 10:28; 18:8,9; 25:41,46; Mark 9:43–49; John 5:28,29; 2 Thessalonians 1:6–9; Revelation 20:6,11–15; 21:1–8.

Statistical Information - Fall Semester 2015

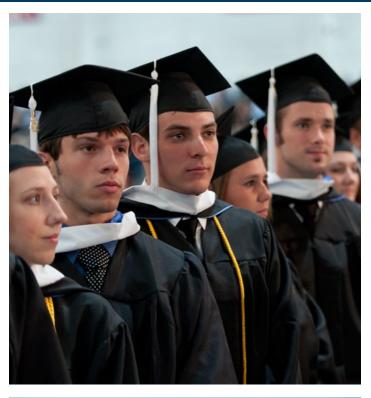
| Enrollment By Class | Men | Women | Totals |
|--|------------------|-----------|-----------|
| Freshmen | 428 | 434 | 862 |
| Sophomores | 337 | 360 | 697 |
| Juniors | 325 | 362 | 687 |
| Seniors | 392 | 419 | 811 |
| Post-baccalaureate Special/Grad/High School | 1 112 | 3 184 | 4 296 |
| Totals | 1,595 | 1,762 | 3,357 |
| Totalo | 1,000 | 1,702 | 0,007 |
| Enrollment By Major (double majors are in | cluded) | | |
| Majors | Men [°] | Women | Totals |
| Accounting | 47 | 28 | 75 |
| Allied Health | 30 | 40 | 70 |
| Applied Communication | 16 | 47 | 63 |
| Athletic Training | 14 3 | 27 1 | 41 4 |
| Bible, Comprehensive Bible, Comprehensive - Online | 3 | Ó | 3 |
| Bible, Preseminary | ĭ | ŏ | ĭ |
| Bible, Youth Ministries | 25 | 16 | 41 |
| Biblical Studies | 55 | 3 | 58 |
| Biology – Bachelor of Arts | 11 | 15 | 26 |
| Biology – Bachelor of Science | 39 | 32 | 71 |
| Broadcasting & Digital Media | 55 2 | 16 4 | 71 |
| Chemistry – Bachelor of Arts Chemistry – Bachelor of Science | 19 | 6 | 6 25 |
| Chemistry Education | 2 | ŏ | 2 |
| Christian Education | 12 | 13 | 25 |
| Computer Engineering | 56 | 5 | 61 |
| Computer Science | 74 | 10 | 84 |
| Criminal Justice | 32 | 15 | 47 |
| Early Childhood Education | 5 | 116 | 121 |
| Electrical Engineering | 45 15 | 7 23 | 52 |
| English Environmental Science | 3 | 23 6 | 38 9 |
| Exercise Science – Bachelor of Science | 19 | 11 | 30 |
| Finance | 57 | 10 | 67 |
| Forensic Science | 4 | 22 | 26 |
| Geology | 12 | 6 | 18 |
| Geosciences | .4 | 0 | 4 |
| Global Business | 13 | 9 | 22 |
| Global Economics & International Busines | s 1 16 | 0 26 | 1 42 |
| Graphic Design History | 10 | 10 | 20 |
| History/Political Science | 2 | 7 | 9 |
| Individualized Studies | ō | . i | ĭ |
| Industrial and Innovative Design | 53 | 38 | 91 |
| Information Systems/Info Tech Manageme | | 5 | 41 |
| Integrated Language Arts Education | 5 | 11 | 16 |
| Integrated Life Science Education | 2 5 | 3 8 | 5 13 |
| Integrated Math Education Integrated Science Comprehensive Educa | | 2 | 2 |
| Integrated Social Studies Education | 13 | 8 | 21 |
| Intercultural Communication | 0 | Ĭ | 1 |
| International Studies | 9 | 14 | 23 |
| Intercultural Studies – Missiology | 10 | 16 | 26 |
| International Studies/Missiology | 1 | 1 | 2 |
| International Studies – Social Science Journalism | 0 5 | 1 8 | 1 13 |
| Liberal Arts | 4 | 4 | 8 |
| Linguistics | 6 | 21 | 27 |
| Management | 62 | 40 | 102 |
| Marketing | 36 | 31 | 67 |
| Mathematics – Bachelor of Arts | 8 | 5 | 13 |
| Mathematics – Bachelor of Science | 5 | 6 | 11 |
| Mechanical Engineering Middle Childhood Education | 198 9 | 28 25 | 226 34 |
| Molecular and Cellular Biology | 31 | 35 | 66 |
| Multi-Age Health and Physical Education | 5 | 1 | 6 |
| Music | 15 | 10 | 25 |
| Music, Composition | 5 | 0 | 5 |
| Music, Keyboard Pedagogy | 0 | 13 | 13 |
| Music, Multi-Age Education | 12 | 18 | 30 |
| Music, Performance Nursing | 5 40 | 15 304 | 20 344 |
| Pastoral Studies | 1 | 0 | 1 |
| Pharmaceutical Sciences | 45 | 72 | 117 |
| Philosophy | 1 | 0 | 1 |
| Physical Education, Multi-Age | 3 | 3 | 6 |
| Physical Science Education | 1 | 0 | 1 |
| Physics – Bachelor of Arts | 1 | 0 | 1 |
| Physics – Bachelor of Science Physics Education | 15 0 | 2 1 | 17 1 |
| Political Science | 17 | 11 | 28 |
| Pre-Engineering | 23 | 0 | 23 |
| | | | |

| Prelaw | 4 | 4 | 8 |
|---|----------------|------------|--------------|
| Pre-Nursing | 7 | 32 | 39 |
| Professional Writing & Information Design | 5 | 14 | 19 |
| Psychology | 23 | 81 | 104 |
| Public Administration | 9 | 2 | 11 |
| RN to BSN - Degree Completion | 0 4 | 1 | 1 |
| Social Work | 0 | 81 2 | 85 2 |
| Sociology Spanish | 4 | 19 | 23 |
| Spanish Education, Multi-Age | 0 | 4 | 4 |
| Special Education – Intervention Specialis | | 36 | 39 |
| Sport and Exercise Studies | 0 | 3 | 3 |
| Sport Business Management | 31 | 12 | 43 |
| Studio Art | 3 | 10 | 13 |
| Professional Writing and Information Design | | 3 | 4 |
| Technical & Professional Communication | 4 | 4 | 8 |
| Theatre | 7 | 22 | 29 |
| Undecided – Degree Seeking | 24 | 32 | 56 |
| Undecided – Nondegree | 111 | 183 | 294 |
| Visual Communication Design | 5 | 16 | 21 |
| Worship | 39 | 18 | 57 |
| Youth Ministries | 23 | 10 | 33 |
| Student Resident Status | Men | Women | Totals |
| Campus housing | 1,223 | 1,336 | 2,576 |
| Commuters | 222 | 208 | 430 |
| Faculty/Enrollment Comparison (full-tim | | | |
| | Student | Faculty | Ratio |
| 2005-06 | 2,947 | 211 | 14:1 |
| 2006–07 | 3,064 | 211 228 | 15:1 13:1 |
| 2007–08 2008–09 | 3,006 | 228 202 | 15:1 |
| 2009–10 | 2,996 2,841 | 195 | 15.1 |
| 2010–11 | 2,938 | 202 | 15:1 |
| 2011–12 | 3,014 | 215 | 14:1 |
| 2012–13 | 3,053 | 225 | 14:1 |
| 2013–14 | 3,075 | 240 | 13:1 |
| 2014–15 | 3,082 | 251 | 12:1 |
| 2015–16 | 3,076 | 245 | 13:1 |



Appendix Statistical Information – Fall Semester 2015

| Enrollment By State | Men | Women | Totals |
|--------------------------------|--------------------|---------------|--------------------|
| Alabama | 3 | 2 | .5 |
| Alaska | 2 | 8 | 10 |
| Arizona Arkansas | 2 1 | 2 0 | 4 1 |
| California | 13 | 23 | 36 |
| Colorado | 14 | 19 | 33 |
| Connecticut | 18 | 9 | 27 |
| Delaware | 7 | 2 | 9 |
| Florida | 38 | 28 | 66 |
| Georgia | 7 | 6 | 13 |
| Hawaii | 0 | 5 | 5 |
| Idaho | 0 | _3 | . 3 |
| Illinois | 67 | 77 | 144 |
| Indiana | 91 16 | 86 15 | 177 31 |
| lowa Kansas | 16 7 | 8 | 15 |
| Kentucky | 26 | 24 | 50 |
| Maine | 20 | 20 | 40 |
| Maryland | 26 | 36 | 62 |
| Massachusetts | 24 | 15 | 39 |
| Michigan | 108 | 134 | 242 |
| Minnesota | 11 | 16 | 27 |
| Mississippi | 0 | <u>1</u> | .1 |
| Missouri | 12 | 7 | 19 |
| Montana | 2 | 0 | 2 4 |
| Nebraska Nevada | 1 1 | 3 2 | 3 |
| New Hampshire | 19 | 15 | 34 |
| New Jersey | 28 | 29 | 57 |
| New Mexico | 0 | 1 | 1 |
| New York | 66 | 72 | 138 |
| North Carolina | 20 | 23 | 43 |
| North Dakota | 1 | 2 | 3 |
| Ohio | 636 | 758 | 1,394 |
| Oklahoma | 1 | 1 | 2 |
| Oregon | 4 | 5 | 9 |
| Pennsylvania | 114 | 138 | 252 |
| Rhode Island South Carolina | 5 7 | 7 2 | 12 9 |
| South Dakota | 0 | 2 | 2 |
| Tennessee | 9 | 11 | 20 |
| Texas | 16 | 13 | 29 |
| Utah | 0 | 2 | 2 |
| Vermont | 5 | 3 | 8 |
| Virginia | 46 | 42 | 88 |
| Washington | 15 | 17 | 32 |
| West Virginia | 13 | 15 | 28 |
| Wisconsin | 33 | 28 | 61 |
| Wyoming | 4 | 2 23 | 6 |
| Foreign Residence Totals | 36 1,595 | 1,7 62 | 59 3,357 |
| iotais | 1,333 | 1,702 | 3,337 |
| Enrollment By Age | | | |
| Years | Men | Women | Totals |
| under 18 | 120 | 199 | 319 |
| 18 | 337 | 367 | 704 |
| 19 | 323 | 408 | 731 |
| 20 | 337 | 366 | 703 |
| 21 22 | 301 112 | 326 55 | 627 167 |
| 22 23-24 | 38 | 20 | 58 |
| 25-29 | 20 | 5 | 25 |
| 30-34 | 2 | 3 | 5 |
| 35-39 | Ō | 3 | 3 |
| 40-49 | Ĭ | 7 | 8 |
| 50+ | 4 | 3 | 7 |
| Totals | 1,595 | 1,762 | 3,357 |









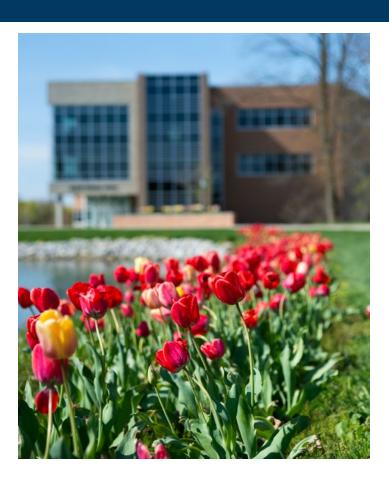
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| Academic Information15 |
| Academic Integrity |
| Academic Leadership |
| Academic Programs and Majors |
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| Admission Criteria for Postbaccalaureate Candidates |
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| Admission Requirements and Procedures |
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| Admission to Academic Programs 18 Admission to the Social Work Program 193 Adolescent/Young Adult and Multi-Age Licensure Programs 90 Advanced Placement 22 Agriculture Business Emphasis 190 Agriculture Science Emphasis 190 Air Force Aerospace Studies 126 Air Force Scholarships 289 Allied Health 133 Alpha Delta Nu 112 Alpha Iota Alpha (AIA) Men in Nursing 156 Alpha Sigma 48 Alternate Year Courses 26 Appendix 291 Army 126 Army National Guard Scholarships 289 |
| Admission to Academic Programs 18 Admission to the Social Work Program 193 Adolescent/Young Adult and Multi-Age Licensure Programs 90 Advanced Placement 22 Agriculture Business Emphasis 190 Agriculture Science Emphasis 190 Air Force Aerospace Studies 126 Air Force Scholarships 289 Allied Health 133 Alpha Delta Nu 112 Alpha Iota Alpha (AIA) Men in Nursing 156 Alpha Sigma 48 Alternate Year Courses 26 Appendix 29 Army 126 Army National Guard Scholarships 289 Army Scholarships 289 |
| Admission to Academic Programs 18 Admission to the Social Work Program 193 Adolescent/Young Adult and Multi-Age Licensure Programs 90 Advanced Placement 22 Agriculture Business Emphasis 190 Agriculture Science Emphasis 190 Air Force Aerospace Studies 126 Air Force Scholarships 289 Allied Health 133 Alpha Delta Nu 112 Alpha Iota Alpha (AIA) Men in Nursing 156 Alpha Sigma 48 Alternate Year Courses 26 Appendix 291 Army 126 Army National Guard Scholarships 289 Art and Design Requirements 37 |
| Admission to Academic Programs 18 Admission to the Social Work Program 193 Adolescent/Young Adult and Multi-Age Licensure Programs 90 Advanced Placement 22 Agriculture Business Emphasis 190 Agriculture Science Emphasis 190 Air Force Aerospace Studies 126 Air Force Scholarships 289 Allied Health 133 Alpha Delta Nu 112 Alpha Iota Alpha (AIA) Men in Nursing 156 Alpha Sigma 48 Alternate Year Courses 26 Appendix 29 Army 126 Army National Guard Scholarships 289 Army Scholarships 289 |
| Admission to Academic Programs 18 Admission to the Social Work Program 193 Adolescent/Young Adult and Multi-Age Licensure Programs 90 Advanced Placement 22 Agriculture Business Emphasis 190 Agriculture Science Emphasis 190 Air Force Aerospace Studies 126 Air Force Scholarships 289 Allied Health 133 Alpha Delta Nu 112 Alpha Iota Alpha (AIA) Men in Nursing 156 Alpha Sigma 48 Alternate Year Courses 26 Appendix 291 Army 126 Army National Guard Scholarships 289 Arm Scholarships 289 Art and Design Requirements 37 Art and Design Student Handbook 37 Arts Administration Minor 44 Asian Studies Minor 109 |
| Admission to Academic Programs 18 Admission to the Social Work Program 193 Adolescent/Young Adult and Multi-Age Licensure Programs 90 Advanced Placement 22 Agriculture Business Emphasis 190 Air Force Aerospace Emphasis 190 Air Force Aerospace Studies 126 Air Force Scholarships 289 Allied Health 133 Alpha Delta Nu 112 Alpha Iota Alpha (AIA) Men in Nursing 156 Alpha Sigma 48 Alternate Year Courses 26 Appendix 291 Army 126 Army National Guard Scholarships 289 Art and Design Requirements 37 Art and Design Requirements 37 Arts Administration Minor 44 Asian Studies Minor 109 Assignment to Classes 16 |
| Admission to Academic Programs 18 Admission to the Social Work Program 193 Adolescent/Young Adult and Multi-Age Licensure Programs 90 Advanced Placement 22 Agriculture Business Emphasis 190 Air Force Aerospace Emphasis 190 Air Force Aerospace Studies 126 Air Force Scholarships 289 Allied Health 133 Alpha Delta Nu 112 Alpha Iota Alpha (AIA) Men in Nursing 156 Alpha Sigma 48 Alternate Year Courses 26 Appendix 291 Army 126 Army National Guard Scholarships 289 Art and Design Requirements 37 Art and Design Student Handbook 37 Arts Administration Minor 44 Asian Studies Minor 109 Assignment to Classes 16 Association of Information Technology Professionals 59 |
| Admission to Academic Programs |
| Admission to Academic Programs |
| Admission to Academic Programs 18 Admission to the Social Work Program 193 Adolescent/Young Adult and Multi-Age Licensure Programs 90 Advanced Placement 22 Agriculture Business Emphasis 190 Agriculture Science Emphasis 190 Air Force Aerospace Studies 126 Air Force Scholarships 289 Allied Health 133 Alpha Delta Nu 112 Alpha Iota Alpha (AIA) Men in Nursing 156 Alpha Sigma 48 Alternate Year Courses 26 Appendix 291 Army 126 Army National Guard Scholarships 289 Army Scholarships 289 Art and Design Requirements 37 Art and Design Requirements 37 Art and Design Student Handbook 37 Arts Administration Minor 44 Asian Studies Minor 109 Assignment to Classes 16 Association of Information Technology Professionals 59 Athletic Training 132 Athletic Training Mission Statement 130< |
| Admission to Academic Programs 18 Admission to the Social Work Program 193 Adolescent/Young Adult and Multi-Age Licensure Programs 90 Advanced Placement 22 Agriculture Business Emphasis 190 Air Force Aerospace Emphasis 190 Air Force Aerospace Studies 126 Air Force Scholarships 289 Allied Health 133 Alpha Delta Nu 112 Alpha Iota Alpha (AIA) Men in Nursing 156 Alpha Sigma 48 Alternate Year Courses 26 Appendix 291 Army 126 Army National Guard Scholarships 289 Army Scholarships 289 Art and Design Requirements 37 Art and Design Requirements 37 Art and Design Student Handbook 37 Arts Administration Minor 44 Asian Studies Minor 109 Assignment to Classes 16 Association of Information Technology Professionals 59 Athletic Training 132 Athletic Training Mission Statement 130< |
| Admission to Academic Programs |
| Admission to Academic Programs 18 Admission to the Social Work Program 193 Adolescent/Young Adult and Multi-Age Licensure Programs 90 Advanced Placement 22 Agriculture Business Emphasis 190 Air Force Aerospace Emphasis 190 Air Force Aerospace Studies 126 Air Force Scholarships 289 Allied Health 133 Alpha Delta Nu 112 Alpha Iota Alpha (AIA) Men in Nursing 156 Alpha Sigma 48 Alternate Year Courses 26 Appendix 291 Army 126 Army National Guard Scholarships 289 Army Scholarships 289 Art and Design Requirements 37 Art and Design Requirements 37 Art and Design Student Handbook 37 Arts Administration Minor 44 Asian Studies Minor 109 Assignment to Classes 16 Association of Information Technology Professionals 59 Athletic Training 132 Athletic Training Mission Statement 130< |
| Admission to Academic Programs |
| Admission to Academic Programs |
| Admission to Academic Programs 18 Admission to the Social Work Program 193 Adolescent/Young Adult and Multi-Age Licensure Programs 90 Advanced Placement 22 Agriculture Business Emphasis 190 Air Force Aerospace Emphasis 190 Air Force Aerospace Studies 126 Air Force Scholarships 289 Allied Health 133 Alpha Delta Nu 112 Alpha Delta Nu 112 Alpha Sigma 48 Alternate Year Courses 26 Appendix 291 Army 126 Army National Guard Scholarships 289 Art and Design Requirements 37 Art and Design Requirements 37 Art and Design Student Handbook 37 Arts Administration Minor 44 Association of Information Technology Professionals 59 Athletic Training 132 Athletic Training Mission Statement 130 Auditions 139 Au Sable Institute of Environmental Studies 21 Bachelor of Science in Pharmaceutical Sciences </td |
| Admission to Academic Programs 18 Admission to the Social Work Program 193 Adolescent/Young Adult and Multi-Age Licensure Programs 90 Advanced Placement 22 Agriculture Business Emphasis 190 Agriculture Science Emphasis 190 Air Force Aerospace Studies 126 Air Force Scholarships 289 Allied Health 133 Alpha Delta Nu 112 Alpha Iota Alpha (AIA) Men in Nursing 156 Alpha Sigma 48 Alternate Year Courses 26 Appendix 291 Army 126 Army National Guard Scholarships 289 Army Scholarships 289 Army Scholarships 289 Art and Design Requirements 37 Art and Design Requirements 37 Art and Design Student Handbook 37 Arts Administration Minor 44 Asian Studies Minor 109 Assignment to Classes 16 Association of Information Technology Professionals 59 Athletic Training Mission Statement 130< |
| Admission to Academic Programs 18 Admission to the Social Work Program 193 Adolescent/Young Adult and Multi-Age Licensure Programs 90 Advanced Placement 22 Agriculture Business Emphasis 190 Air Force Aerospace Emphasis 190 Air Force Aerospace Studies 126 Air Force Scholarships 289 Allied Health 133 Alpha Delta Nu 112 Alpha Sigma 48 Alternate Year Courses 26 Appendix 291 Army 126 Army National Guard Scholarships 289 Art and Design Requirements 37 Art and Design Requirements 37 Art and Design Student Handbook 37 Arts Administration Minor 44 Asian Studies Minor 109 Association of Information Technology Professionals 59 Athletic Training 132 Athletic Training Mission Statement 130 Auditions 130 Au Sable Institute of Environmental Studies 21 Bachelor of Science in Pharmaceutical Scien |

| Biology — Bachelor of Science | 179 |
|---|---|
| Biology Minor | 120 |
| Biomedical Engineering Minor | 100 |
| | |
| Board of Trustees | |
| Broadcasting and Digital Media | / (|
| Broadcasting and Digital Media Minor | 8 |
| Business Administration Minor | 72 |
| Cabinet | 292 |
| Calendar and Credits | 16 |
| Campus Community Organizations | |
| Campus Employment | |
| Campus Recreation | 0 |
| Career Services | |
| CCTECC Student Teaching Abroad Program | ۰۰۰۰۰۰۰۰ |
| COTECO Student reaching Abroad Program | 2 |
| Cedars | |
| Cedarville Legal Society | |
| Cedarville Summer Abroad Programs | 10 ⁻ |
| Center for Apologetics and Public Christianity | 48 |
| Center for Biblical Integration | 48 |
| Center for Political Studies | 113 |
| Chancellor | 292 |
| Chapel | |
| Chamietry — Bachalor of Arts | 17 |
| Chemistry — Bachelor of Arts Chemistry — Bachelor of Science | 17 |
| Chemistry — Bachelor of Science | 104 |
| Chemistry Minor | 100 |
| Onemon y Willion | IO |
| Christian Education | |
| Christian Ministries Management Minor | / 2 |
| Christian Ministry Minor | |
| Church History Minor | 122 |
| Church Relations | |
| Class Attendance | 16 |
| Classification of Students | 16 |
| Clinical Activity Information | 157 |
| Clinical Requirements | 132 |
| Clinical Requirements | 157 |
| Coaching Minor | 13 |
| College Level Examination Program (CLEP) | 2: |
| College Now Program | 20 |
| College Republicans | 111 |
| Communication | 79 |
| Community Covenant | |
| | |
| CompositionComprehensive Communication Arts Minor | 144 |
| | |
| Computer Engineering | |
| Computer Network | |
| Computer Science — Bachelor of Science | |
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| Continuing at the University | 26 |
| Continuing Education | 20 |
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| Course Descriptions Course Load Course Numbers and Designations Course Registration Courses Creative Writing Minor Credit by Examination | 197 26 26 27 22 109 |
| Course Descriptions Course Load Course Numbers and Designations Course Registration Courses Creative Writing Minor Credit by Examination Credit/No Credit Program | |
| Course Descriptions Course Load Course Numbers and Designations Course Registration Courses Creative Writing Minor Credit by Examination Credit/No Credit Program Criminal Justice | 197 29 27 27 109 22 30 |
| Course Descriptions Course Load Course Numbers and Designations Course Registration Courses Courses Creative Writing Minor Credit by Examination Credit/No Credit Program Criminal Justice Criminal Justice Criminal Justice Minor | 197 29 27 22 109 22 30 114 |
| Course Descriptions Course Load Course Numbers and Designations Course Registration Courses Creative Writing Minor Credit by Examination Credit/No Credit Program Criminal Justice Criminal Justice Minor Cross-Cultural Nursing Minor | |
| Course Descriptions Course Load Course Numbers and Designations Course Registration Courses Creative Writing Minor Credit by Examination Credit/No Credit Program Criminal Justice Criminal Justice Minor Cross-Cultural Nursing Minor Deans and Chairs | 197 197 26 27 109 27 109 114 122 158 |
| Course Descriptions Course Load Course Numbers and Designations Course Registration Courses Creative Writing Minor Credit by Examination Credit/No Credit Program Criminal Justice Criminal Justice Minor Cross-Cultural Nursing Minor | 197 197 26 27 109 27 109 114 122 158 |
| Course Descriptions Course Load Course Numbers and Designations Course Registration Courses Creative Writing Minor Credit by Examination Credit/No Credit Program Criminal Justice Criminal Justice Minor Cross-Cultural Nursing Minor Deans and Chairs Dean's Honor List Dean's List | |
| Course Descriptions Course Load Course Numbers and Designations Course Registration Courses Creative Writing Minor Credit by Examination Credit/No Credit Program Criminal Justice Criminal Justice Minor Cross-Cultural Nursing Minor Deans and Chairs Dean's Honor List Dean's List | |
| Course Descriptions Course Load Course Numbers and Designations Course Registration Courses Creative Writing Minor Credit by Examination Credit/No Credit Program Criminal Justice Criminal Justice Minor Cross-Cultural Nursing Minor Dean's Honor List Dean's List Debate Deferred Payment Plan for Veterans | |
| Course Descriptions Course Load Course Numbers and Designations Course Registration Courses Creative Writing Minor Credit by Examination Credit/No Credit Program Criminal Justice Criminal Justice Minor Cross-Cultural Nursing Minor Dean's Honor List Dean's List Debate Deferred Payment Plan for Veterans | |
| Course Descriptions Course Load Course Numbers and Designations Course Registration Courses Creative Writing Minor Credit by Examination Credit/No Credit Program Criminal Justice Criminal Justice Minor Cross-Cultural Nursing Minor Deans and Chairs Dean's Honor List Dean's List Debate Deferred Payment Plan for Veterans Delta Mu Delta | |
| Course Descriptions Course Load Course Numbers and Designations Course Registration Courses Creative Writing Minor Credit by Examination Credit/No Credit Program Criminal Justice Criminal Justice Minor Cross-Cultural Nursing Minor Deans and Chairs Dean's Honor List Dean's List Debate Deferred Payment Plan for Veterans Delta Mu Delta Demographic Profile | |
| Course Descriptions Course Load Course Numbers and Designations Course Registration Courses Creative Writing Minor Credit by Examination Credit/No Credit Program Criminal Justice Criminal Justice Minor Cross-Cultural Nursing Minor Deans and Chairs Dean's Honor List Dean's List Debate Deferred Payment Plan for Veterans Delta Mu Delta Demographic Profile Departmental Organizations | |
| Course Descriptions Course Load Course Numbers and Designations Course Registration Courses Creative Writing Minor Credit by Examination Credit/No Credit Program Criminal Justice Criminal Justice Minor Cross-Cultural Nursing Minor Deans and Chairs Dean's Honor List Dean's List Debate Deferred Payment Plan for Veterans Delta Mu Delta Demographic Profile Departmental Organizations Departmental Organizations Department of Art, Design, and Theatre | |
| Course Descriptions Course Load Course Numbers and Designations Course Registration Courses Creative Writing Minor Credit by Examination Credit/No Credit Program Criminal Justice Criminal Justice Minor Cross-Cultural Nursing Minor Deans and Chairs Dean's Honor List Dean's List Debate Deferred Payment Plan for Veterans Delta Mu Delta Demographic Profile Departmental Organizations | |

| Department of English, Literature, and Modern Languages | | General Education Requirements for Education Majors | |
|--|---|--|---|
| Department of English, Literature, and Modern Languages Course | | General Information | |
| Descriptions | | General Use | |
| Department of History and Government | | Geology — Bachelor of Science | |
| Department of History and Government Course Descriptions | | Geology Minor Geosciences — Bachelor of Arts | 170 |
| Department of Kinesiology and Allied Health Department of Kinesiology and Allied Heath Course Descriptions | | German Club | |
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| Department of Music and Worship Course Descriptions | | Global Business. | |
| Department of Psychology | 164 | Global Economics and International Business Major | |
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| Department Scholarships | 288 | Grading System | 29 |
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| Early Commencement | | High School Preparation | |
| Earth Science MinorEconomics — Bachelor of Arts | | History | |
| Economics — Bachelor of Arts Economics — Bachelor of Science | | History (Major) | |
| Economics Minor | | History Minor Homeschooled Students Transcript Policy | |
| Editing and Publishing Minor | | Honors Program | |
| Editing and Publishing Minor | 100 | Housing | |
| Educational Philosophy for Engineering and Computer Science | 103 | Human Resource Management | |
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| Electrical Engineering | | Industrial and Innovative Design | |
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| EMS Education and Special Credit | | Communication Design Requirements | 36 |
| Enactus | | Information Technology Management | |
| Engineering and Computer Science Advisory Council | 94 | Information Technology Management Major | 60 |
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| English | | Institutional Test-Out | |
| Ensemble Participation | | Integrated Business Core (IBC) | |
| Ensembles | | Interactive Web Design Minor | 44 |
| Entrepreneurship Minor | | Intercollegiate Athletics | |
| Environmental Biology Emphasis | | Intercultural Communication MinorIntercultural Studies — Missiology | |
| Epsilon Alpha Pi | - | Intercultural Studies — Missiology | |
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| Epsilon Pi Lambda | | | |
| Lpoilon 1 1 Lambaa | | | 285 |
| Exercise Science — Bachelor of Science | | Interest Rates | |
| | 134 | Interest Rates | 14 |
| Facilities | 134 157 | Interest Rates | 14 23 |
| FacilitiesFamily Educational Rights and Privacy Act | 134 157 33 | Interest Rates | 14 23 72 |
| FacilitiesFamily Educational Rights and Privacy Act | 134 157 33 289 | Interest Rates | 14 23 72 |
| FacilitiesFamily Educational Rights and Privacy ActFederal Direct Stafford Loans | 134 157 33 289 289 | Interest Rates International Admission Policies (non-U.S. citizens) International Baccalaureate International Business for the Non-business Major Minor International Business Minor | 14 72 72 72 |
| Facilities Family Educational Rights and Privacy Act Federal Direct Stafford Loans Federal Grants Federal Parent PLUS Loans Federal Pell Grant. | 134 157 33 289 289 290 289 | Interest Rates International Admission Policies (non-U.S. citizens) International Baccalaureate International Business for the Non-business Major Minor International Business Minor International Field Experience International Studies International Studies Minor | 14 72 72 194 117 |
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ACADEMIC QUICK REFERENCE GUIDE

Fall Semester 2016

August 2016

1–5 New Faculty Orientation

8–10 Academic Leadership Group Meeting

11 Faculty/Staff Picnic

12 Faculty/ Staff Sessions and Service Awards

Program

15 Academic Division Meeting 16–18 Department/School Retreats

19–21 Getting Started Weekend (meal contract starts

at 5 p.m. on Friday)

22–25 Fall Bible Conference
24 Instruction Begins at 8 a.m.
29 Convocation Chapel at 10 a.m.

September 2016

5 Labor Day (no classes) 28–29 Trustee Meetings 30 Homecoming

October 2016

1 Homecoming

13–16 Fall Break (no classes)

17 Instruction Resumes at 8 a.m.

20 Majors Assemblies

24 Advising/Early Registration for Spring: Student-

Athletes

25–26 Advising/Early Registration for Spring: Seniors

27–28 Advising/Early Registration for Spring: Juniors

November 2016

1–3 Advising/Early Registration for Spring:

Sophomores

15–17 Advising/Early Registration for Spring:

Freshmen

21-12/5 Student Evaluation of Faculty for Fall Semester

2016

23–28 Thanksgiving Break Begins at 1 p.m.

(residence halls open; dining hall closed)

29 Instruction Resumes at 8 a.m.

December 2016

13-16 Final Exams*

21 Grades Due at 3 p.m.

Summer Sessions 2017

May Session: May 9–May 26, 2017 June Session: June 12–June 23, 2017

Summer Online Courses: May 30–August 18, 2017 (online only) Summer Non-Traditional: May 8–August 18, 2017 (online only)

Spring Semester 2017

January 2017

9 New Student Orientation and Preparation

(meal contract starts at 5 p.m.)

10 Instruction Begins at 8 a.m. 10–12 Missions Conference

10–12 Missions Conference 26-27 Trustee Meetings

February 2017

2 Majors Assemblies

March 2017

4–12 Spring Break (residence halls open; dining hall

closed)

13 Instruction Resumes at 8 a.m.

15 Advising/Early Registration for Fall: Student-

Athletes

16–17 Advising/Early Registration for Fall: Seniors 20–21 Advising/Early Registration for Fall: Juniors

20–21 Advising/Early Registration for Fall: Juniors 22–24 Advising/Early Registration for Fall:

Sophomores

28–30 Advising/Early Registration for Fall: Freshmen

April 2016

11 Academic Honors Dav

14–17 Easter Break

18 Instruction Resumes at 8 a.m.

19–5/1 Student Evaluation of Faculty for Spring

Semester 2016

May 2016

2–5 Final Exams* 4–5 Trustee Meetings

6 121th Annual Commencement

(residence halls close at 5 p.m. for

undergraduates, 8 p.m. for walking seniors)

10 Grades due at 3 p.m.

*Final exam schedules are published at the beginning of each semester. Please be sure that your travel arrangements do not conflict with your final exams.

CEDARVILLE

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Located in southwest Ohio, Cedarville University attracts 3,700 undergraduate, graduate and online students to more than 100 areas of study. Founded in 1887 for the Word of God and the Testimony of Jesus Christ, Cedarville is recognized nationally for it's authentic Christian community, rigorous academic programs, strong graduation and retention rates, accredited professional and health science offerings and leading student satisfaction ratings.