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An **ACADEMIC GUIDE** to your
100

DAYS
at **CEDARVILLE UNIVERSITY**

2023–24
UNDERGRADUATE
ACADEMIC CATALOG

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2023–24 Academic Catalog

Home to 5,082 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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A Word From Our President

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

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

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

In Christ,

Thomas White, PhD
President, Cedarville University

History

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

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

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

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

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

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

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

In 2013, Dr. Thomas White became the 10th president of Cedarville University. Under his leadership, the University embarked on its first-ever comprehensive fundraising campaign -- *One Thousand Days Transformed: The Campaign for Cedarville*. This \$175 million fundraising effort is expanding capacity, minimizing student debt and maximizing affordability, transforming lives in and out of the classroom, and preparing for the future. As part of the campaign, the University has already built a Civil Engineering Center and two-story Chick-fil-A, expanded Callan Athletic Center, and begun construction on the Scharnberg Business Center.

Profile

Home to 5,082 Christian undergraduate, graduate, and dual-enrolled high school students, Cedarville University is an accredited, Christ-centered, Baptist university of arts, sciences, professional, and graduate programs located in southwest Ohio. Since its founding in 1887, Cedarville has maintained its commitment to biblical truth and academic excellence to equip students for academic success, professional leadership, and spiritual influence. This intentional focus has earned Cedarville a national reputation as a leader in liberal arts, health sciences, and professional programs.

Cedarville's undergraduate curriculum is built upon a liberal arts core including biblical education, communications, global studies, humanities, physical education, science and mathematics, and the social sciences. From this foundation, the University's 68 undergraduate degree programs provide concentrated study leading to one of eight baccalaureate degrees.

Graduate programs are a growing segment of Cedarville's educational array. Cedarville now offers eleven master's and doctoral degrees and eight certificate programs in the areas of athletic training, business, innovation, leadership, ministry, nursing, PA studies, pharmacy, and worship — 14 available fully online — build on the University's undergraduate reputation, but serve the unique needs of adult students.

Mission Statement

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

Vision Statement

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

Portrait Statements

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 degree-granting institution chartered by the state of Ohio and authorized by the Ohio Department of Higher Education.

The University and its degree program offerings are accredited by the Higher Learning Commission (hlcommission.org). In addition, several programs maintain specialized accreditation. The Bachelor of Arts degree programs in educator preparation are accredited by the Council for the Accreditation of Educator Preparation (CAEP), by the Ohio Department of 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 (<http://www.ccneaccreditation.org>). 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 in Computer Science degree is accredited by the Computing Accreditation Commission (CAC) of ABET under the Computer Science program criteria and the Computer Science degree with a cyber operations specialization is also accredited by the CAC under the Cybersecurity program criteria. The Bachelor of Science in Social Work program is accredited by the Council on Social Work Education (CSWE). The Bachelor of Arts and the Bachelor of Science in business related fields, and the Master of Business Administration degrees are accredited by the Association of Collegiate Business Schools and Programs (ACBSP). The Bachelor of Arts in Music program, the Bachelor of Music programs, and the Bachelor of Music Education program are accredited by the National Association of Schools of Music (NASM). The Doctor of Pharmacy program is accredited by the Accreditation Council for Pharmacy Education (ACPE). The Master of Athletic Training program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE). The Bachelor of Science in Exercise Science program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendation of the Committee on Accreditation for the Exercise Sciences and the Master of Medical Science in Physician Assistant Studies has been granted Accreditation-Provisional status by the Accreditation Review Commission on Education for the Physician Assistant, Inc. (ARC-PA). Information about the aforementioned accrediting agencies and links to their respective accreditation requirements are available at cedarville.edu/accreditation.

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



Setting

Cedarville University is located on 780 acres at the north edge of the village of Cedarville, Ohio, a quiet town with a population of approximately 4,000. Founded in 1816 at the junction of two state routes, the village and its surrounding area have long provided a wholesome environment for learning.

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

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

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

Facilities

Alford Auditorium

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

Apple Technology Resource Center

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

Athletic and Recreation Center

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

Callan Athletic Center

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

Constructed in 2022, the Callan Athletic Center Expansion includes the Varsity Weight Room, a 3,600 square foot

performance facility designed specifically for strength and conditioning for the University's 16 varsity athletic programs. Branded from top to bottom with the Cedarville Yellow Jacket, the space allows for 36 athletes to train simultaneously on state of the art, sport specific equipment. The facility also serves to enhance sport rehabilitation and return to play through the athletic training program.

Additionally, the Callan Expansion houses the Athletic Team Room, with more than 2,000 square feet of space for the athletic staff and student athletes to meet, review film, host events, and recruit future Yellow Jackets.

Doden Field House

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

Fitness Center

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

University Medical Services

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

Carnegie Center for the Visual Arts

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

Centennial Library

The 66,000 square foot library served as the cornerstone of the University's 1987 Centennial celebration. This structure brings together research and information services, resources, and personnel to support students and faculty. Located on a prominent site within the academic cluster of buildings, this facility provides solo and group study spaces, physical information materials, and in-person research support designed to meet the needs of all academic programs. The Library presently houses over 170,000 print volumes and provides access to nearly 200,000 e-books along with access to world-class databases and digital resources. Library resources are accessible remotely by students or faculty members, and research support services are also available online.

In 1996, Cedarville College became one of the first private institutions to join OhiOLINK, a cooperative of over 90 institutional libraries in Ohio that share physical resources through direct borrowing and digital resources through consortial purchasing. The Library's Digital Commons serves as the University's institutional

repository and publishes both books and journals. The library also houses the MediaPLEX, the Curriculum Materials Center, computer classrooms, a variety of individual and group study spaces, 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 Education program in the Cedarville University School of Education and Social Work, 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.

Center for Biblical and Theological Studies

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

The Cove, the campus academic enrichment center, is also located on the second floor in the building

Chemistry Laboratory Center

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

Chick-fil-A

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

Civil Engineering Center

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

Dixon Ministry Center

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

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

The Department of Music and Worship facilities include 15

instructional studios, 20 practice rooms, four rehearsal halls, a piano pedagogy suite, a piano laboratory, a computer laboratory, three specialized classrooms, a large conference room, and a beautiful 250-seat recital hall.

Engineering and Science Center

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

In addition to academic, classroom, and laboratory space, the Engineering and Science Center is home to the International Student Services and Study Abroad suite.

Engineering Projects Laboratory

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

Founders Hall

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

Graduate and Teaching Services

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

Hartman Hall

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

Health Sciences Center

The Health Sciences Center is home to the Schools of Nursing and Pharmacy. This facility houses state-of-the-art classrooms and research and clinical laboratories, including one of the best simulation centers in the country. It also includes numerous student collaboration rooms and comfortable lounges for group interaction and individual study and relaxation.

History and Government Center

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

Milner Business Administration Building

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

Patterson Hall

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

Scharnberg Business Center

Construction on the 65,000-square-foot Scharnberg Business Center began fall 2022 and is scheduled to be completed for fall 2024. This world-class facility will house the Robert W. Plaster School of Business, Department of Communication, and Center for the Advancement of Cybersecurity.

Stevens Student Center

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

Dining options on campus include the dining hall's all-you-can-eat meals or Panda Express. The President's Dining Room, used for special occasions, offers formal dining in an elegant setting. Many students and guests also enjoy Rinnova, the campus coffee shop.

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

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

Tyler Digital Communication Center

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

Williams Hall

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

Computer Network

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

CedarNet's connection to the Internet is robust, supported by dual high-speed fiber links that ensure high availability.

Access

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

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

Benefits

Students using the network can:

- Communicate electronically on campus with professors, friends, and classmates, or with friends and family around the world.
- Manage, display, and analyze data using spreadsheet, statistical, and database software.
- Access online course materials using Cedarville's learning management system.
- Search library holdings for personal and class research projects, papers, or presentations, even when the library is closed.
- Access their course schedule, college transcript, or business office account.
- Plan their degree programs and register for classes.
- Learn to use the network through online tutorials 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 resume writing and career coaching. Students may take advantage of workshops or individual appointments (in-person and virtually) geared to assist them with resume writing, interviewing, LinkedIn, networking, gaining admission to graduate school, salary negotiations, and understanding the job search process. Career assessment surveys (MyPlan) and individual coaching sessions are also available to help students determine majors and occupations. The Career Services homepage (cedarville.edu/career) links to the latest in network-based job search programs (such as LinkedIn), guides to major employers, and directories for graduate schools. Seven career fairs are held each year to allow prospective employers to meet with students. Employers also visit the university for individual on-campus recruiting days and interview sessions.

Students may register for free with Jobs4Jackets powered by Handshake (a job and internship database used by 1,400+ universities with 90,000 positions posted for Cedarville University students and alumni this past year). Students may browse job openings and upload a resume for employer and staff review. This is a service they may continue using as alumni. Affiliations include: 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), and National Association of Resume Writers (NARW). Highlights: Ranked as one of the top career services offices in the Ruffalo Noel-Levitz student satisfaction survey among all participating public and private institutions. Employment statistics for Cedarville graduates consistently rank above the national averages provided by the National Association of Colleges and Employers (NACE).

Counseling Services

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

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

Location: SSC 163

Phone: 937-766-7855

Web: cedarville.edu/counseling

Email: counseling@cedarville.edu

Healthcare and Medical Services

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

Phone: 937-766-7862

Fax: 937-766-7865

Web: cedarville.edu/ums

Email: ums@cedarville.edu

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

Housing

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

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

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

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

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

Getting Started Weekend

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

Vehicles

All students are permitted to bring one vehicle to campus if it is properly registered with Campus Security at cedarville.edu/vehicleresistration. Students must park in lots according to their housing assignment. For more Campus Security information, go to cedarville.edu/campus-security.



Ministry Opportunities

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

Chapel

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

Discipleship Ministries

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

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

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

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

Global Outreach — Local

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

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

Global Outreach — Domestic

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

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, thousands of participants have served in 160 countries. Each year opportunities for service include medical, computer, evangelism, engineering, sports, orphan care, teaching English as a second language, music, and physical labor. Every student is encouraged to minister cross-culturally before graduation. Contact Global Outreach for details.

cedarville.edu/globaloutreach

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. 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.

cedarville.edu/Heartsong

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 133
- Engineering Competitions – Engineering and Computer Science, page 158
- Speech Team – Communication, page 133
- Math Club – Science and Mathematics, page 185
- Ensembles – Music and Worship, page 86
- Student Radio Station – Communication, page 133
- Theatre – Art, Design, and Theatre, page 55

Music Groups

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

Vocalists may sing with the Concert Chorale, Women's Choir, Opera Ensemble, and Jubilate Worship Choir, and Madrigal Choir.

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

Students may also audition for HeartSong and chapel bands which are 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 squad should visit the Cedarville University Athletics website (yellowjackets.cedarville.edu) and click on "recruits" in the menu.

Campus Recreation

Campus Recreation provides safe and exciting recreational facilities as well as a wide variety of programs and services to help meet the fitness and recreational needs and interests of our University family. Our outdoor recreational facilities include 20 acres of field space, four sand volleyball courts, two basketball/pickleball courts, and one disc golf course. Our indoor recreational facilities include a 60,000-square-foot field house, three racquetball courts, an exercise studio, a free weight room area, a circuit weight training area, 50 cardio machines, and a 36-foot indoor rock climbing wall. Our programs include over 25 intramural sports, several club sports, various outdoor pursuit trips, fitness programming, and special events. For a complete list of recreational activities and additional information, visit cedarville.edu/recreation.

Student Life Programs

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

Leadership Opportunities

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

- Stewardship – We recognize that all of our gifts, abilities, and talents are given to us from God, and we are responsible to use them for His glory in the service of others. (1 Pet. 4:10)
- Influence – We recognize that true leadership is influence. We all have influence and it is our privilege and responsibility to influence others. We must lead like Jesus who did not have

a position in society but radically changed the world for the Kingdom of God through his influence.

- Service – We recognize that true leadership is not a position of honor or power but one of humility and service. (Heb. 13)

Organizations

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

Academic Organizations

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Society for Women Engineers (SWE) is an educational and

service organization that empowers women to succeed and advance in the field of engineering and to be recognized for their life-changing contributions as engineers and leaders.

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

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

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

Student Academic Advisory Board is a student-led organization that advises the Vice President for Academics. It consists of two representatives from each academic department who represent and report student comments, concerns, and questions about academics at Cedarville University, among other responsibilities.

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

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

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

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

Social/Service Organizations

Campus Community Organizations

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

Departmental Organizations

Cedarville University Emergency Medical Services

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

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

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

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

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

VISION is a diversity organization through Admissions that is dedicated to recruiting prospective students from underrepresented backgrounds. This includes students who are multiethnic, first in their family to go to college, missionary kids, military kids, homeschooled students, third-culture kids, and international students. The purpose of VISION is to expand Cedarville's multi-cultural community by connecting prospective students with current Cedarville University students through on-campus 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 Degree-Seeking 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 weighted or unweighted, cumulative grade point average in college preparatory coursework.
4. Optional*: ACT, SAT, or CLT test scores at or above the national average (22 ACT; 1100 SAT; 72 CLT).

Admission Criteria for Degree-Seeking Transfer Candidates

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

Admission Criteria for Degree-Seeking Postbaccalaureate Candidates

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 baccalaureate degree from a regionally accredited or otherwise approved university with a minimum 2.75 cumulative grade point average.

Admission Criteria for Degree-Seeking 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 coursework.

Admission Criteria for Nondegree-Seeking Dual Enrollment Candidates

1. Evidence of a personal relationship with Jesus Christ.
2. A consistent Christian lifestyle as confirmed by a church leader.
3. A minimum 3.0, weighted or unweighted, cumulative grade point average in college-preparatory coursework through the end of the most recent term prior to enrollment.
4. Optional*: ACT or SAT test scores (22 ACT composite: 21 English, 19 Math, 20 Reading, 20 Science; SAT 1100 combined: 570 Evidence Based Reading and Writing, 550 Math). Scores on other exams, including PSAT, CLT, ACCUPLACER: Writeplacer, ACCUPLACER: Next-Generation Quantitative Reasoning, Algebra, and Statistics may also be considered.

Admission Criteria for Nondegree-Seeking Christian School Partnership Dual Enrollment Candidates

1. A minimum 3.0, weighted or unweighted, cumulative grade point average in college-preparatory coursework through the end of the most recent term prior to enrollment.
2. Optional*: ACT or SAT test scores (22 ACT composite: 21 English, 19 Math, 20 Reading, 20 Science; SAT 1100 combined: 570 Evidence Based Reading and Writing, 550 Math). Scores on other exams, including PSAT, CLT, ACCUPLACER: Writeplacer, ACCUPLACER: Next-Generation Quantitative Reasoning, Algebra, and Statistics may also be considered.

Admission Criteria for Degree-Seeking Readmit Candidates

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

1. Continued evidence of a personal relationship with Jesus Christ.
2. A consistent Christian lifestyle confirmed by a Christian leader reference.
3. 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.
2. A consistent Christian lifestyle confirmed by a Christian leader reference.
3. Satisfactory academic progress at most recent academic institution.

*Cedarville University does not require a standardized test score for admission; however, some students choose to take the ACT, SAT, or CLT and submit their scores. Certain Cedarville University courses require students to demonstrate prerequisite proficiency that can be satisfied by standardized tests. For more details and information, visit cedarville.edu/testoptional.

Undergraduate Admission Process and Deadlines

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

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

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 Dual Enrollment program has no reservation deposit requirement. However, you must observe the admission decision/registration deadlines found at cedarville.edu/dualenrollment.



New Student Orientation

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

Undergraduate Admission Policies

High 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, dual enrollment, and international baccalaureate courses.

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

Grade Point Average Calculation

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

Homeschooled Students Transcript Policy

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

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

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

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

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

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

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

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

High School Graduation Date Policy

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

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

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



Procedures to Evaluate the Validity of High School Completion

If the institution or the secretary has reason to believe that a student's high school diploma is not valid or was not obtained from an entity that provides secondary school education, the Registrar's office, in conjunction with Admissions, will pursue the following procedures to evaluate the validity:

- Seek and receive documentation from the secondary school that confirms the validity of the student's diploma; and
- Confirm with and/or receive documentation from the relevant department or agency in the state in which the secondary school is located that the secondary school is recognized as a provider of secondary school education.

Proof of High School Graduation

Prior to matriculation at Cedarville, each accepted student must send to the Cedarville Registrar's Office a final, official high school transcript. To be final and official, the transcript must include the following:

- A full month/day/year graduation date (NOT exit date, leave date, or withdraw date)
- An official school seal and/or an original, handwritten signature
- Four full years of courses, grades, and credits

While electronic transcripts verified through a service such as Docufide/Parchment, Scoir, or eSCRIP-SAFE are official, transcripts sent as an attachment to an email or uploaded directly to the application file, unfortunately, do not meet the requirements for an official transcript. We cannot accept a transcript that is prepared and sent before graduation.

The Office of the Registrar contacts all students who have not provided an official final transcript prior to enrollment to request their assistance in providing this information by a firm date. A registration restriction is activated for any students who do not meet the specified deadline. This prevents them from registering for a future term without first providing an official copy of their final high school transcript.

General Education Diploma (GED) or High School Equivalency Diploma: If an applicant has not earned a diploma from a secondary program, an HSE or GED is required. The academic areas of the examination are reviewed in light of the general requirements for admission.

Standardized Test Use

General Use

Due to the limited availability of standardized testing during the COVID-19 pandemic, Cedarville will not require a standardized test score for admission for students entering any term through spring 2023. Though standardized tests are not required, Cedarville University accepts ACT, SAT, and CLT tests for admission, financial aid, and proficiency purposes. Cedarville "superscores" all standardized tests. This means that Cedarville will take a student's highest subscores achieved on any of the dates a student took a given test and then combine those scores together to create a new composite "superscore".

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

Financial Aid

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

Proficiency and Test Out

Upon enrollment, University students must demonstrate proficiency in English and mathematics. One way to demonstrate proficiency is via standardized test scores. For proficiency purposes, Cedarville University will consider the highest subject score from either the ACT, SAT, or CLT. English proficiency can be met with a score of 21 on the English section of the ACT, a score of 550 on the Evidence-Based Reading and Writing section of the SAT, or a score of 52 on the Verbal Reasoning and Grammar/Writing combined sections of the same CLT. English proficiency can also be met with a score of 6 on the ACCUPLACER WritePlacer exam. Math proficiency can be met with either a score of 19 on the math section of the ACT, a score of 530 on the math section of the SAT, or a score of 20 on the Quantitative section of the CLT. Math proficiency can also be met with a score of 250 on the ACCUPLACER Next Generation exam for Quantitative Reasoning, Algebra, and Statistics. For more information, please refer to the General Education Requirements on page 26.

Undergraduate Transfer Policies

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

Although Cedarville University does not have a defined limit on the number of credits that a student may transfer, all students must meet the minimum standards for graduation as prescribed for their degree program in the University catalog. In addition to meeting the specified grade point average and general education requirements, transfer students pursuing a bachelor's degree must complete a minimum of 32 semester hours from Cedarville University, at least one-third of the course requirements for their selected major from Cedarville University, and at least 32 semester hours of upper-division (3000–4000 level) courses. Due to the particular nature of their content, some course requirements must be taken from Cedarville University. Unless otherwise approved by the department chair or dean, this is applicable for three general education requirements, including GSS-1100 Politics and American Culture, HUM-1400 Introduction to Humanities, and PEF-1990 Physical Activity and Healthy Living.

Upon receipt of official transcripts, specific transfer course equivalencies are determined by the Office of the Registrar, in collaboration with the dean or chair of the corresponding school or department. All prospective transfer students receive an official, individualized, written transfer evaluation from the Office of the Registrar that confirms the total number of transferable credits, the specific course equivalencies, and how each course is applicable to the student's selected course of study.

All transfer credit for which a student is eligible will be posted on the student's transcript with the assigned course equivalent 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. All transferred credits are visible in the University's electronic degree audit system to enable transfer students to accurately track their progress toward graduation at any time.

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

For international colleges or universities, the international

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

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

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

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

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

Standardized Test Requirement

All undergraduate international applicants are encouraged to submit either the ACT, SAT, or CLT exam. Cedarville's institution code for the SAT is 1151 and the ACT institution code is 3245.

English Proficiency

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

- Achieving an internet-based score of 80 on the TOEFL
- Achieving a 6.5 on the IELTS exam
- Achieving a score of 120 on the Duolingo English Test
- Achieving a minimum score of 53 on the Pearson Test of English (PTE)
- Demonstrating English proficiency on the English 3/Gateway EnglishTest (E3PT)
- Achieving an ACT composite score of at least 22 and English sub-score of 22
- Achieving a SAT score of at least 1100 and Writing and Language sub-score of 550
- Completing at least two years in an English-speaking high school setting (i.e., English-speaking international school), including two years of high school English courses (non-ESL) with satisfactory grades
- Provide proof of citizenship and residency from a native speaking English country
- Completing an entire baccalaureate program in a regionally accredited or otherwise approved college/university

Verification of Non-English Transcripts

All transcripts submitted to Cedarville University, including final, official high school transcripts, must be in English. If transcripts are in a language other than English, have a different grading system from the U.S., 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

Financial Requirement

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

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

Verifying Students Selected for Proof of Educational Purpose

Students may be required to verify their identity and confirm Statement of Educational Purpose. Students may do so by downloading and completing Cedarville's Identity and Statement of Educational Purpose form located on Cedarville's website. Students who are CPS selected in V4 and/or V5 verification tracking groups are notified through the University software system (self-service portal) and corresponding emails, as instructed in 34 CFR 668.56 and the AVG.

Orientation

Participation in the International Student Orientation program is mandatory for all new international students. It is also highly recommended for MK-TCK students who desire to participate. This three-day program is comprehensive and includes airport transportation, activities, and meals for all students attending orientation. It offers a variety of exciting, informational sessions and fun activities to help International, MK, and TCK students get oriented to campus and university life. The advanced arrival gives students time to acclimate to their surroundings and get to know other students as well. Orientation topics include academic adjustment and support, cultural adjustment, banking, employment, and important details about maintaining visa status.

In addition to this orientation, all International, MK, and TCK students are enrolled in a required first semester course:

COLL-0950 International GATEways to Success (1 hr)

This course is a requirement for all international, visa-holding students. It is designed to help students adapt to college-level learning in the American classroom and to the expectations of "American" time. The class is designed to give each student a successful start with proven cultural adjustment and academic strategies, and addresses plagiarism, intercultural communication, and cultural intelligence while promoting growth in their spiritual walk. The course is a semester-long extension of international student orientation and sets the foundation for student success, retention, and persistence. This one credit hour course does NOT count toward the hours needed for graduation.

COLL-0930 MK/TCK PATHways to Success (1 hr)

This PATHways course is designed to help Missionary Kid (MK) and Third Culture Kid (TCK) students transition and adapt to expectations of 'American' culture and academics while discovering their own potential for proactively managing and excelling in all facets of college life. The class is designed to give each student a successful start with proven cultural adjustment and academic strategies and skills to navigate being the 'invisible immigrant.' It will address challenges such as plagiarism, intercultural communication, and cultural intelligence while promoting growth in their spiritual walk. The course is a semester-long extension of International-MK-TCK student orientation and sets the foundation for student success, retention, and persistence. This one credit hour course does NOT count toward hours for 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 Appreciation — Students, faculty, and staff are encouraged to express appreciation for their pastors. Pastor Appreciation month provides an occasion to acknowledge their teaching, spiritual investment, and discipleship in our lives.
- Annual Conferences — Church Relations sponsors or supports Cedarville conferences designed to equip and strengthen local churches, such as the annual Pastors Conference, Worship 4:24, and other events, addressing a variety of issues facing the church.
- Regional and National Conferences — Church Relations represents the University at a number of regional and national conferences.
- Pastor Recommendation and Church Match Scholarships are a way Cedarville partners with churches in support of young people who wish to attend Cedarville.





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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 feature biblical integration, practical application, collaborative engagement, and technological innovation.

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

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

Current graduate, first-professional, and certificate offerings:

| Degree/Program | Delivery Format |
|--|-----------------|
| <i>Doctoral Degrees</i> | |
| Doctor of Nursing Practice – BSN to DNP | Online |
| Track: Adult-Gerontology Acute Care Nurse Practitioner | |
| Track: Family Nurse Practitioner | |
| Track: Nursing Leadership in Healthcare Improvement | |
| Track: Pediatric Nurse Practitioner – Primary Care | |
| Doctor of Nursing Practice – MSN to DNP | Online |
| Track: Adult-Gerontology Acute Care Nurse Practitioner | |
| Track: Family Nurse Practitioner | |
| Track: Pediatric Nurse Practitioner – Primary Care | |
| Doctor of Nursing Practice – MSN/NP to DNP | Online |
| Doctor of Pharmacy | Campus |
| PharmD+ MBA also available | Campus/Online |
| <i>Master's Degrees</i> | |
| Master of Athletic Training | Campus |
| Master of Arts in Biblical Leadership | Online |
| Master of Arts in Innovation | Online |
| Concentration: Business Innovation | |
| Concentration: Business Analytics and Visualization | |
| Master of Arts in Worship and Theology | Online |
| Master of Business Administration | Online |
| Concentration: Accounting | |
| Concentration: Business Analytics | |
| Concentration: Cybersecurity Management | |
| Concentration: Healthcare Administration | |
| Concentration: Innovation and Entrepreneurship | |
| Concentration: Operations Management | |
| Master of Divinity | Campus |
| Advanced Master of Divinity | Campus |
| Master of Ministry | Campus/Online |
| Master of Medical Science in PA Studies | Campus |
| Master of Science in Nursing | Online |
| Track: Adult-Gerontology Acute Care Nurse Practitioner | |
| Track: Family Nurse Practitioner | |
| Track: Nurse Educator | |
| Track: Nursing Leadership in Healthcare Improvement | |
| Track: Pediatric Nurse Practitioner – Primary Care | |
| MSN + MBA also available | Online |

Graduate Certificates (non-degree)

| | |
|---|--------|
| Cybersecurity Management | Online |
| Global Public Health | Online |
| Healthcare Administration | Online |
| Leadership | Online |
| Nursing Education | Online |
| Nursing Leadership | Online |
| Operations Management | Online |
| Worship Leadership | Online |
| Global Public Health Nursing (in teach-out) | Online |

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

Undergraduate Study

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

Calendar and Credits

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

Classification of Students

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



Assignment to Classes

Official class membership is determined according to the following schedule:

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

Undergraduate Degree Requirements

Cedarville University offers eight baccalaureate degrees: Bachelor of Arts (BA), Bachelor of Music (BM), Bachelor of Music Education (BME), Bachelor of Science (BS), Bachelor of Science in Civil Engineering (BSCE), Bachelor of Science in Computer Engineering (BSCPE), Bachelor of Science in Electrical Engineering (BSEE), Bachelor of Science in Mechanical Engineering (BSME), and Bachelor of Science in Nursing (BSN).

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

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

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

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



Requirements for a Second Degree

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

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

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

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

Graduation

All students must realize that it is their responsibility to check on their progress toward meeting all requirements for graduation. Although each student has an academic advisor to help with course planning, the student is ultimately responsible for the chosen class schedule and course of study. Students 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. Progress toward completion of degree requirements can be verified at any time using Student Planning.

To participate in the May commencement ceremony, each student must submit an application 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 and/or a cumulative grade point average below 2.30 to complete after the spring semester must obtain approval from the Office of the Registrar to participate in commencement. Information concerning eligibility for August or December graduation and early commencement is available in the Office of the Registrar.

Academic Programs and Majors

Admission to Academic Programs

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

Selecting a Major

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

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

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

Requirements of a Major

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

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

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

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

Electives

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

Program Licensure

Prospective students should be aware that each state and U.S. territory may have different professional licensure and certification requirements governing various occupations. Cedarville University ensures that its educational programs meet the educational prerequisites for professional licensure or certification within the state of Ohio; however, if you plan to pursue licensure outside of the state of Ohio you should contact your Cedarville University academic or program advisor to verify that the program you are pursuing meets the licensure requirements for the state or territory in which you plan to seek licensure. The requirements in that state or territory may be different from Ohio's requirements.

Students are ultimately responsible for verifying their individual eligibility for state licensure and for satisfying any requirements, both academic and professional, imposed by that state or territory. While a program may initially meet the educational requirements for licensure, changes made to requirements by a state/territory could impact the program's ability to meet any new educational requirements. Students are strongly encouraged to check with their state licensure board to confirm licensure requirements and to obtain additional guidance as needed from that board and their Cedarville University academic/program advisor.



Major Fields of Undergraduate Study

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

- Accounting — Bachelor of Science
- Allied Health — Bachelor of Science
- Biblical Studies
- Biblical Studies — Accelerated BA/Master of Divinity
- Biology — Bachelor of Arts
- Biology — Bachelor of Science
- Broadcasting, Digital Media, and Journalism
- Chemistry — Bachelor of Arts
- Chemistry — Bachelor of Science
- Chemistry Education[#]
- Civil Engineering[#]
- Communication
- Computer Engineering
- Computer Science
- Criminal Justice
- Cyber Operations
- Economics — Bachelor of Arts
- Economics — Bachelor of Science
- Electrical Engineering
- English
- Environmental Science
- Exercise Science — Bachelor of Science
- Finance — Bachelor of Science
- Forensic Science
- Geology
- Global Business
- History
- Industrial and Innovative Design*
- Information Technology Management — Bachelor of Science
- International Studies*
- Keyboard Pedagogy
- Language Arts Education — Integrated[#]
- Liberal Arts
- Life Science Education[#]
- Linguistics
- Management — Bachelor of Science
- Marketing
- Mathematics — Bachelor of Arts
- Mathematics — Bachelor of Science
- Mathematics Education — Integrated[#]
- Mechanical Engineering
- Middle Childhood Education[#]
- Molecular Biology
- Music
- Music Composition
- Music Education — Multi-Age[#]
- Music Performance
- Nursing[#]
- Pharmaceutical Sciences
- Physical Science Education[#]
- Physics
- Physics Education[#]
- Political Science
- Prelaw*
- Primary (P–5) Education[#]
- Professional Writing and Information Design
- Psychology
- Science Comprehensive Education — Integrated[#]
- Social Studies Education — Integrated[#]
- Social Work[#]
- Spanish
- Spanish Education — Multi-Age[#]
- Special Education — Intervention Specialist[#]
- Sport Business Management
- Sport Medicine — Bachelor of Science
- Studio Art
- Theatre
- Visual Communication Design
- Worship

Minor Fields of Undergraduate Study

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

- Accounting
- Actuarial Science
- Addictions and Chemical Dependency
- Arts Administration
- Asian Studies
- Bible
- Bible Teacher Education
- Biblical Care and Counseling
- Bioethics
- Biology
- Biomedical Engineering
- British Studies
- Broadcasting and Digital Media
- Business Administration
- Business Analytics
- Chemistry
- Child and Family Studies
- Christian Ministry
- Church History
- Comprehensive Communication Arts
- Comprehensive Counseling
- Computer Science
- Construction Management
- Creative Writing
- Criminal Justice
- Cross-Cultural Nursing
- Cross-Cultural Psychology
- Digital Video
- Earth Science
- Economics
- Editing and Publishing
- Entrepreneurship
- French
- Geology
- German
- Graphic Design
- Greek
- Health Psychology and Public Health
- History
- Honors
- Information Technology Management
- Interactive Web Design
- Intercultural Communication
- International Business
- International Studies
- Latin American Studies
- Linguistics
- Literature
- Marketing
- Mathematics
- Middle Eastern Studies
- Missions
- Motion Graphics
- Music
- Music Technology
- National Security
- Neuropsychology
- Organizational Communication
- Pastoral Ministry
- Philosophy and Theology
- Physics
- Political Science
- Pre-Master of Divinity
- Preseminary Bible
- Psychological Research
- Psychology
- Public Administration
- Public Policy
- Public Relations
- Sociology
- Songwriting
- Spanish
- Spanish for Healthcare Personnel
- Spanish for Professionals
- Sport Management
- Studio Art
- Teaching English to Speakers of Other Languages (TESOL)[#]
- Theatre
- Theatre Design
- Theatre Performance
- Western European Studies
- Women's Ministry
- Worship
- Writing for the Professions
- Youth Ministry

[#] Program licensure required; see Program Licensure on page 21.



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.

Dual Enrollment Program

Students entering grades seven through 12 may apply to take dual credit courses in Cedarville's Dual Enrollment 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. On-campus housing is not available to Dual Enrollment students unless they are attending the Summer Scholars program.

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

Preprofessional Programs

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

Other Programs

- Honors
- Certificate in Medical Spanish
- 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 Reading, French, EMT, and Advanced EMT. Visit cedarville.edu/continuinged for current course and CEU offerings.

EMS Education and Special Credit

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

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

Since 2004, the University has been accredited by the State Board of Emergency Medical Services (Accreditation #387) to conduct EMS training. Reaccreditation was granted in 2018 for another five years.

Summer Terms

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

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

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

CU Study Abroad Opportunities

Students are encouraged to participate in a study abroad program as a complement to their academic experience at Cedarville. Study abroad programs are available at a variety of price points and durations; there is sure to be a program match for every student, every major. Participants remain enrolled at Cedarville, continue to receive financial aid (for programs during the Fall and Spring semesters), and take courses abroad for Cedarville credit. Advanced planning is highly recommended. For additional information and help with planning, contact the Study Abroad office at studyabroad@cedarville.edu. Preapproval from the Study Abroad office must be received before students can participate in a program abroad. To register study abroad courses for credit, participants must be degree-seeking students or receive permission from the Dean of Undergraduate Studies. The Study Abroad office has cooperating agreements with several program partners. Opportunities to study abroad (both internationally and domestically) are available in more than 50 countries and 118 locations through these agreements. Restrictions apply to some programs.

Special Programs

Semester in Spain cedarville.edu/semesterinspain

The Institute of Spanish Studies (ISS) in Valencia, Spain is one of the CU Study Abroad Office's closest partners. Students of all levels of Spanish language proficiency have participated in this program. In addition to taking courses with a prestigious language institute, students can participate in service learning opportunities

depending on their level of Spanish. The program is represented 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.

Cedarville University Geology of National Parks

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

Study Abroad Summer Programs

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

International-Intercultural Student Teaching Programs (IIP)

International

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

Intercultural

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

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

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

Au Sable Institute of Environmental Studies

Cedarville University is a Sustaining Partner with Au Sable Institute. Students enrolled at Cedarville University may take advantage of field-intensive courses offered by the Au Sable Institute, including 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), and Au Sable Costa Rica (Vara Blanca, Costa Rica). Au Sable courses provide

academic content, field experience, and practical tools to serve, protect, and restore God's creation. The Institute grants vocational certificates for environmental analysts, land resource analysts, water resource analysts, and naturalists. Academically qualified students are awarded the Au Sable Academic Scholar Award (\$600–\$1,400 per course). As a Sustaining Partner, Cedarville students are also granted a tuition discount (\$800 per course). Interested students should contact Dr. Mark Gathany, Cedarville University's Au Sable Institute representative. mgathany@cedarville.edu.

The Cove — Academic Enrichment Center

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

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

Tutoring

- Peer tutoring: In-person and Online
- Peer coaches: Weekly review sessions for specific courses
- Math Tutoring Lab

Courses

- COLL-0900 Foundations* (to equip and assist students to be successful through their first year of college)
- COLL-1010 MAP *(managing academic probation)
- GMTH-0900 Intermediate Algebra*

* The credit hours may not be used toward the hours needed for graduation.

Services

- Disability Services - Provides reasonable, appropriate accommodations to ensure equal access to programs and services for students impacted by a disability. If you are in need of accommodations because of the impact of a disability, please contact Disability Services at disabilityservices@cedarville.edu or 937-766-7437.
- Faculty academic coaching
- Online resource site
- Presentations and seminars
- Support for international students, athletes, commuters, Dual Enrollment, graduate student, and exploratory/undeclared majors

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

COLL-0900 This one-credit-hour course may be required for some students whose academic backgrounds do not reflect their collegiate potential. This opportunity reflects our desire for each student to establish a strong academic foundation and maintain academic momentum. Admission to the required course is 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 66,000-square-foot library served as the cornerstone of the University's 1987 centennial celebration. This structure brings together research and information services, resources, and personnel to support students and faculty. Located on a prominent site within the academic cluster of buildings, this facility provides solo and group study spaces, physical information materials, and in-person research support designed to meet the needs of all academic programs. The Library presently houses over 170,000 print volumes and provides access to nearly 200,000 e-books along with access to world-class databases and digital resources. Library resources are accessible remotely by students or faculty members, and research support services are also available online.

In 1996, Cedarville University became one of the first private institutions to join OhioLINK, a cooperative of over 90 institutional libraries in Ohio that share physical resources through direct borrowing and digital resources through consortial purchasing. The Library's Digital Commons serves as the University's institutional repository and publishes both books and journals. The library also houses the MediaPLEX, the Curriculum Materials Center, computer classrooms, a variety of individual and group study spaces, 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 Education program in the Cedarville University School of Education and Social Work, 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. Students should contact their local high schools to obtain advanced placement course and registration information.

College Level Examination Program (CLEP)

Students earn credit through CLEP by taking nationally standardized examinations in a variety of subject areas. These tests may be taken at local colleges before enrolling at Cedarville or at Cedarville after enrolling. CLEPs taken with remote proctoring

through an approved proctoring agency are also acceptable. 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.

Since the General Education core requirements are designed to be foundational in the college curricular experience, efforts to fulfill these requirements through the CLEP program must be accomplished by the time students have either completed their first two full years at Cedarville or earned 61 credit hours (junior classification). Transfer students with junior or senior classification who wish to pursue CLEP credit to satisfy General Education requirements must do so by the end of their first semester of full-time attendance at Cedarville.

Students may not pursue credit by CLEP examination for any course in which they have been enrolled or if they have taken a more advanced level course in that discipline. Hours earned through CLEP do not count as hours in residence toward graduation with honors.

Institutional Test-Out

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

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

International Baccalaureate

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

General Education Requirements

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

The general education pattern is:

I. University Study Skills Requirements.....0 hrs

Students may satisfy the University study skills requirements through one of the following methods:

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

II. English and Mathematics Proficiency0–4 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:

1. Score 21* or higher on the English section of the ACT; or
2. Score 550* or higher on the Evidence Based Reading and Writing section of the recentered SAT; or
3. Score 52 or higher on the Verbal Reasoning and Grammar/Writing combined sections of the same CLT test; or
4. Score 59 or higher on the CLEP College Composition Examination; or
5. Score 6 or higher on the ACCUPLACER WritePlacer examination.
6. Complete a course equivalent to Cedarville University ENG-0900 Composition Workshop 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
7. 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
8. If proficiency is not verified by any of the means listed above, the required proficiency must be achieved through successful completion of the course ENG-0900 Composition Workshop (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:

1. Score 19* or higher on the mathematics section of the ACT; or
2. Score 530* or higher on the mathematics section of the recentered SAT; or
3. Score 20 or higher on the Quantitative Reasoning section of the CLT test; or
4. Score 53 or higher on the CLEP College Algebra exam; or
5. Score 250 or higher on the ACCUPLACER Next Generation Exam for Quantitative Reasoning, Algebra, and Statistics.
6. Complete a course equivalent to GMTH-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
7. 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
8. 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
9. If proficiency is not verified by any of the means listed above, the required proficiency must be achieved through successful completion of the course GMTH-0900 Intermediate Algebra (two semester hours), which should be completed during the first semester of matriculation at Cedarville University and **must be completed no later than the last term of the sophomore year. These two credits do not apply toward the 128 credits needed for graduation.**

III. Biblical Education15 hrs

- A. BTGE-1725 The Bible and the Gospel3
- B. BTGE-2730 Old Testament Literature3
- C. BTGE-2740 New Testament Literature3
- D. BTGE-3755 Theology I3
- E. BTGE-3765 Theology II3

IV. Communication6 hrs

- A. COM-1100 Fundamentals of Speech3
- B. ENG-1400 Composition3

V. Humanities9 hrs

- A. HUM-1400 Introduction to the Humanities3
- B. Any 2000-level literature course (LIT-2XXX)3
- C. At least three semester hours from the following: **+3

 - **ANTH-1800 Cultural Anthropology3
 - ART-1100 Introduction to Art3
 - BTPA-2200 Introduction to Philosophy3
 - BTPA-2250 Ethics3
 - BTPA-2260 World Religions3
 - COM-2140 Intercultural Communication3
 - COM-2300 Voices of Diversity3
 - COM-4110 History of Public Address3
 - EDUC-2400 Children's Literature3
 - EDUC-3100 Philosophical Foundations of Education3
 - EGGN-3110 Professional Ethics3
 - FILM-2350 Christian Motifs in Film3
 - HLMU-2310 Introduction to Music Literature3
 - HUM-2430 Enjoyment of Music3
 - NSG-3050 Behavioral and Mental Healthcare6



| | |
|---|---|
| PYCH-3720 Psychology of Personality..... | 3 |
| THTR-1410 Introduction to Theatre | 3 |
| Any second year foreign language course | 4 |
| Any other 3-hour literature course | 3 |

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

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

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

VI. Global Awareness

Students pursuing a **Bachelor of Arts (BA), Bachelor of Music (BM), or Bachelor of Music Education (BME)** degree must meet one of the following requirements:

- Pass three years of the same foreign language in high school (example: Spanish I, Spanish II, and Spanish III) or one term of an intermediate 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
- Pass two years of the same high school foreign language (example: Spanish I and Spanish II) 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 (BS, BSCE, BSCpE, BSN, BSEE, and BSME)** degree must complete one of the following:

- Pass two years of the same foreign language in high school; or
- 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
- Complete a global awareness course from the following:

ANTH-1800 Cultural Anthropology

ARBC-1400 Introduction to Arabic Language and Culture

BTPA-2260 World Religions

BUS-3910 International Business

COM-2140 Intercultural Communication

COM-2300 Voices of Diversity

ECON-3380 Economic Development and Political Economy

GEO-3520 World Regional Geography: Eastern

GER-3820 Germanic History and Culture

HIST-3080 History of Russia and Eastern Europe

HIST-3200 History and Politics of Latin America

HIST-3210 History and Politics of East Asia

HIST-3220 History and Politics of the Middle East

HIST-3230 History and Politics of Western Europe

HIST-3750 Social Movements

HLMU-3400 Global Music

INTL-2100 Global Issues

INTL-3650 International Relations

LIT-3400 Contemporary Studies in World Literature

LIT-3460 Contemporary East Asian Literature

MRKT-4620 International Marketing

NSG-3170 Culture and Health

NSG-4000 Care of Populations

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.

VII. Physical Education 2 hrs

- A. PEF-1990 Physical Activity and Healthy Living..... 2

VIII. Science and Mathematics 10–16 hrs

- A. One laboratory course from the biological sciences..... 3.5
- B. One laboratory course from the physical sciences 3.5
- Any course with a designator of GSCI, ESCI, CHEM, PHYS, or GEOL.
- C. At least three semester hours selected from the following quantitative courses:

| | |
|--|---|
| BUS-2150 Statistics for Business | 3 |
| EDUC-2800 Principles of Mathematics II | 3 |
| GMTH-1010 Introduction to Mathematics | 3 |
| GMTH-1020 College Algebra | 3 |
| GMTH-1030 Precalculus | 4 |
| GMTH-1040 Calculus for Business | 4 |
| GSS-3650 Quantitative Methodology | 3 |
| PYCH-2610 Statistics | 3 |
| SWK-4610 Statistics for Social Workers | 3 |
| Any 3-credit MATH course | 3 |
- D. Students pursuing Bachelor of Science degrees (BS, BSCE, BSN, BSEE, and BSME) must complete an additional six semester hours. These hours must be selected from courses with BIO, CHEM, ESCI, GBIO, GSCI, GMTH, MATH, and PHYS designators; decision sciences; statistics; or computer application courses selected from the following:

| | |
|---|---|
| EGCP-1010 Digital Logic Design | 3 |
| ITM-2300 Introduction to Programming | 3 |
| SWK-4620 Social Work Research Methods | 3 |

IX. Social Sciences and History 9 hrs

- A. GSS-1100 Politics and American Culture
- B. One course in history
- C. One course selected from the following:
A second HIST course or
Any course with a designator of ANTH**, CRJU, GEO, INTL, POLS, PUAD, SOC, and SWK or PYCH-1600 General Psychology; or ***ECON-2110 Essentials of Economics.

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

***Approved social science elective for non-business majors.

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

Course Load

Assuming that proficiency requirements have been satisfied, a minimum of 128 semester hours is required for graduation. A student should average at least 16 credit hours each semester to graduate upon completion of the eighth semester. Although a normal course load is 15–17 credit hours each semester, students may enroll in up to 18.5 credit hours with advisor approval. Overblock tuition is applicable for any credits above 17 hours taken in a 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

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.

Distance Education

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

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

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

Transient Study

Coursework to be completed at other institutions by a student enrolled at Cedarville University must be approved before the course is taken by securing the signatures of the transfer coordinator, the student's academic advisor, and the chair of the academic department governing the course requirement that the transferred course is to satisfy. Transient Study Applications are available online and 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 Dual Enrollment 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. Dual Enrollment 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.
2. 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. Most students are strongly encouraged to take advantage of this early registration opportunity, rather than registering after the start of an academic term. Students who register early for a term but do not return the following semester must notify the Office of the Registrar of their change in status.

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

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

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

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

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

Undergraduates in Graduate Courses

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

The undergraduate student:

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

The maximum number of graduate courses that an undergraduate student may take shall be determined by each graduate program. In any case, the maximum may not reduce the

remaining graduate credits in the program to fewer than 30 credit hours.

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

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

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

Auditing

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

Adding and Withdrawing From a Course

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

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



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

| Date of Change | Action: |
|--|---|
| 16-Week and 14-week Classes | |
| Through the first full calendar week | No Record on transcript |
| Second full calendar week through end of the ninth calendar week | W – Withdrawn |
| During the 10th and 11th 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 | No Record on transcript |
| Seventh weekday from start of class through end of the | |
| Seventh calendar week | W – Withdrawn |
| During the eighth and ninth calendar weeks or | WP-Withdrawn Passing WF-Withdrawn Failing |
| 10th calendar week 12 through the end of the course | Drops not permitted |
| 8-Week Classes | |
| Through the fourth weekday from start of class | No Record on transcript |
| Fifth weekday from start of class through end of the fourth calendar week | |
| During the fifth calendar week or | W – Withdrawn WP-Withdrawn Passing WF-Withdrawn Failing |
| Sixth calendar week through the end of the course | Drops not permitted |
| 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 | |
| 11th weekday from start of class through 14th weekday from start of class or | W – Withdrawn |
| 15th weekday from start of class through the end of the course | WP-Withdrawn Passing WF-Withdrawn Failing |
| 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 of class | |
| Sixth weekday from start of class through the end of the course | Drops not permitted |
| All Other Classes | |
| 10% from start of class | No Record on transcript |
| 11% from start of class through 50% from start of class | |
| 51% from start of class through the end of the course | W – Withdrawn |
| Note: A weekday is defined as Monday through Friday. A day ends at 5 p.m., eastern time. | Drops not permitted |

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

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

Independent Study

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

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

1. 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.
2. The maximum credit that may be earned for an independent study project is three semester hours.
3. The faculty member supervising the independent study, the student's advisor, and the 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.
5. Supervising an independent study is a privilege a faculty member may extend to a student. It is not a right that a student has.
6. Supervising faculty members determine the grade (letter grade or credit/no credit) for the independent study.

Internships

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

Out-of-Class Courses

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

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

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

Grading System

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



- INC** Indicates a permanent incomplete, a grade assigned in special situations by the faculty member with the approval of the Vice President for Academics. This permanent grade does not influence the student's GPA. To receive a permanent incomplete, the faculty member should submit the appropriate form to the Registrar identifying the circumstances warranting this special grade. If a permanent incomplete is awarded, the grade may not be changed at a future date. To receive credit for the course, the student must again register for the course and complete the course requirements.
- K** Signifies credit and accompanies courses transferred from other colleges or universities. It has no effect upon cumulative GPA.
- NC** Indicates no credit has been earned. Credit hours for which an "NC" has been earned are not used in the computation of GPAs.
- NP** Indicates that the student did not pass a course where the credits do not count toward the graduation requirements. Foundations, Composition Workshop, 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 Foundations, Composition Workshop, 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:

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

Grade Points and Point Averages

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

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

The 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.

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 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 called COLL-1010 MAP. This course is offered through The Cove 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 federal Satisfactory Academic Progress (SAP) to receive federal Title IV 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.

Academic Integrity

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

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

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

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

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

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

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

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

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



Academic Honors

Dean's Honor List

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

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

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

Dean's List

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

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

Graduation with Honors

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

Additional Academic Awards

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

The Faculty Scholarship Trophy

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

The President's Trophy

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

Withdrawing From the University

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

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

Withdrawal for Military Reasons

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

Tuition: 100 percent

Housing: prorated on a per diem basis

Food: prorated on a per diem basis

Fees: 0

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

Approval for the awarding and removal of the entry "permanent incomplete" resides with the Vice President for Academics.

Refunds for housing, food, 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.





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Allied Health

Mission Statement

The Allied Health programs in the Cedarville University School of Allied Health and Psychology seek to equip stewards to be competent, Christ-honoring professionals in healthcare.

Programs of Study

Bachelor of Arts (BA) in:

- Multi-Age Health and Physical Education program (in teach-out process)

Bachelor of Science (BS) in:

- Allied Health
- Exercise Science
- Sport Medicine

Preparation

Students planning to pursue an Allied Health program are best prepared in high school by taking a college preparatory curriculum. Those considering majors in allied health, exercise science, and sport medicine should take biology, chemistry, physics, and mathematics courses at least through algebra II.

Cocurricular Opportunities

Several opportunities are available for students to increase their professional skills and awareness by being involved in the following Cedarville University approved organizations:

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



Career Opportunities

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

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



Faculty

Michael Weller, *Interim Dean*; Associate Professor of Athletic Training; Program Director for Athletic Training; Certified Athletic Trainer (BOC). *Education*: BA, Capital University, 1995; MS, Ohio University, 1997; EdD, Capella University, 2022. At Cedarville since 2010.

Teresa Clark, Associate to the Dean; Associate Professor of Kinesiology; Program Coordinator for MAPE and MAHPE. *Education*: BA, Cedarville University, 1975; MS, Indiana University, 1986. At Cedarville since 1996.

Kenneth Blood, Associate Professor of Athletic Training; Clinical Education Coordinator for Athletic Training; Certified Athletic Trainer (BOC). *Education*: BS, Marietta College, 1980; MS, Ohio University, 1989; EdD, University of Findlay, 2021. At Cedarville since 2020.

Timothy Clark, Associate Professor of Physician Assistant Studies. *Education*: BS, Liberty University, 1994; MS, Barry University, 1998; PA-C, Kettering College, 2001. At Cedarville since 2022.

April Crommett, Associate Professor of Exercise Science; Program Coordinator for Exercise Science. *Education*: BS, Mississippi State University, 1991; MS, Memphis State University, 1993; PhD, The University of Mississippi, 2000. ACSM Certified Health Fitness Instructor. At Cedarville since 2003.

Megan Fox, Assistant Professor of Physician Assistant Studies; Director of Didactic Education for Applicant Physician Assistant Program. *Education*: BA, Cedarville University, 2006; MMS, Methodist University, 2010. At Cedarville since 2022.

Genna Fusco, Assistant Professor of Athletic Training; Certified Athletic Trainer (BOC). *Education*: BS, Heidelberg University, 2014; MEd, Bowling Green State University, 2016. At Cedarville since 2022.

Karen Graham-Burnet, Professor of Physician Assistant Studies. *Education*: BS, Pensacola Christian College, 1998; MPAS, University of Iowa, 2000; PhD, University of Toledo, 2012. At Cedarville since 2021.

Jason Grahame, Associate Professor of PA Studies; Founding Program Director for the Physician Assistant Program. *Education*: BA, Cedarville University, 1999; MPA Eastern Virginia Medical School, 2003. At Cedarville since 2020.

Misti Grimson, Assistant Professor of PA Studies; Medical Director of Physician Assistant Program. *Education*: BS, Mount Vernon Nazarene College, 1996; MD, Wright State University School of Medicine, 2000. At Cedarville since 2020.



Faye Hodgin, Associate Professor of PA Studies; Director of Clinical Education for Applicant Physician Assistant Program. *Education*: BS, Guilford College, 1992; BS, Trevecca Nazarene University, 1995; MPAS, Arizona School of Health Sciences, 2004; PhD, Trevecca Nazarene University, 2023.. At Cedarville since 2022.

Pamela Diehl Johnson, Associate Vice President for Academics; Dean of Undergraduate Studies; Senior Professor of Kinesiology. *Education*: BS, University of Dayton, 1970; MA, The Ohio State University, 1971; PhD, The Ohio State University, 1974. At Cedarville since 1974.

L. Delyte Morris, Professor of Allied Health; Program Coordinator for Allied Health; Licensed Physician Assistant; Coach, women's tennis. *Education*: BS, Geneva College, 1959; MS, Indiana University, 1960; PED, Indiana University, 1966; AS, Kettering College of Medical Arts, 1979. At Cedarville since 1998.

David Peterson, Assistant Professor of Kinesiology. *Education*: BS, Truman State University, 1995; MEd, University of Louisiana at Monroe, 1997; EdD, United States Sports Academy, 2014. At Cedarville since 2018.

Elizabeth Sled, Associate Professor of Kinesiology. *Education*: BScPT, Queens University, 1990; MSC, Ohio State University, 1996; PhD, Queens University, 2008. At Cedarville since 2012.

Emeriti

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

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

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



A complete description of the general education requirements is found on page 26.

Allied Health — Bachelor of Science

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

Course Requirements involve 75–77 semester hours:

| | |
|--|--------------|
| ALHL-1000 Introduction to the Allied Health Professions..... | 1 |
| ALHL-2000 Medical Terminology..... | 3 |
| ALHL-3940 Professional Development | 2 |
| *ALHL-4960 Senior Seminar | 1 |
| BIO-1115 Biology I: Cell Biology..... | 4 |
| BIO-2210 Microbiology | 4 |
| (GBIO-2210 Principles of Microbiology | 4) |
| CHEM-1110 General Chemistry I..... | 4 |
| ESS-3900 Physiology of Exercise | 3 |
| ESS-3920 Biomechanics..... | 3 |
| ESS-3940 Structural Kinesiology | 3 |
| EXSC-4600 Research Methods | 3 |
| GBIO-2010 Human Anatomy and Physiology I | 4 |
| GBIO-2015 Human Anatomy, and Physiology II | 4 |
| GMTH-1030 Precalculus..... | 4 |
| MAHE-3030 Nutrition | 3 |
| MAHE-3070 Current Issues in Health | 1 |
| PYCH-1600 General Psychology | 3 |
| PYCH-2600 Human Development and Lifespan..... | 3 |
| PYCH-2610 Statistics..... | 3 |
| PYCH-2640 Abnormal Psychology | 3 |
| PYCH-3380 Health Psychology | 3 |
| PYCH-3720 Psychology of Personality | 3 |
| One of the following sets | 10–12 |
| Set A: Pre-Physical Therapy, Optometry, Chiropractic,etc | |
| CHEM-1120 General Chemistry II..... | 4 |
| PHYS-1010 College Physics I..... | 4 |
| PHYS-1020 College Physics II..... | 4 |
| or Set B: Pre-Physician Assistant | |
| CHEM-1120 General Chemistry II..... | 4 |
| CHEM-3510 Organic Chemistry I..... | 4 |
| CHEM-3710 Biochemistry..... | 4 |
| or Set C: Pre-Occupational Therapy | |
| PHYS-1010 College Physics I..... | 4 |
| PYCH-3900 Neurophysiological Psychology | 3 |
| SOC-1300 Introduction to Sociology | 3 |
| *Capstone Course | |

Allied Health Major Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0–4 |
| General Education Requirements | 35 |
| Allied Health Major Requirements | 75–77 |
| General Electives | 16–18 |
| Total (minimum, not including proficiency) | 128 |

Suggested Four-Year Curriculum for a Major in Allied Health

First Year:

| | |
|--|-----------|
| ALHL-1000 Introduction to the Allied Health Professions..... | 1 |
| BTGE-1725 The Bible and the Gospel | 3 |
| BIO-1115 Biology I: Cell Biology..... | 4 |
| ENG-1400 Composition..... | 3 |
| GBIO-2010 Human Anatomy and Physiology I | 4 |
| GMTH-1030 Precalculus..... | 4 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| PYCH-1600 General Psychology | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| LIT-2XXX Literature Elective | 3 |
| Electives | 4 |
| Total | 34 |

Second Year:

| | |
|---|-----------|
| ALHL-2000 Medical Terminology | 3 |
| BTGE-2730 Old Testament Literature | 3 |
| BIO-2210 Microbiology | 4 |
| (or GBIO-2210 Principles of Microbiology | 4) |
| COM-1100 Fundamentals of Speech..... | 3 |
| CHEM-1110 General Chemistry I..... | 4 |
| GBIO-2015 Human Anatomy and Physiology II | 4 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| PYCH-2600 Human Development and Lifespan | 3 |
| PYCH-2640 Abnormal Psychology | 3 |
| History/Global Awareness Elective | 3 |
| Total | 33 |

Third Year:

| | |
|--|-----------|
| ALHL-3940 Professional Development | 2 |
| BTGE-2740 New Testament Literature | 3 |
| ESS-3900 Physiology of Exercise | 3 |
| ESS-3920 Biomechanics | 3 |
| ESS-3940 Structural Kinesiology | 3 |
| EXSC-4600 Research Methods | 3 |
| MAHE-3030 Nutrition | 3 |
| MAHE-3070 Current Issues in Health | 1 |
| PYCH-2610 Statistics | 3 |
| PYCH-3380 Health Psychology | 3 |
| Electives | 3 |
| Total | 30 |

Fourth Year:

| | |
|---|-----------|
| ALHL-4960 Senior Seminar | 1 |
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| PYCH-3720 Psychology of Personality | 3 |
| Set A, B, or C Allied Health | 10–12 |
| Electives | 9–11 |
| Total | 31 |



Exercise Science — Bachelor of Science

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

Course requirements involve 65–68 semester hours including:

| | |
|---|------|
| ¹ CHEM-1000 Principles of Chemistry | 4 |
| ESS-1350 Introduction to Exercise Science | 2 |
| ESS-1400 First Aid and Safety Education | 2 |
| ESS-2380 Motor Learning and Development | 3 |
| ESS-3800 Sport Psychology | 3 |
| ESS-3900 Physiology of Exercise | 3 |
| ESS-3920 Biomechanics | 3 |
| ESS-3940 Structural Kinesiology | 3 |
| EXSC-2000 Worksite Observation | 0 |
| EXSC-3010 Practicum I | 1 |
| EXSC-3020 Practicum II | 1 |
| EXSC-3810 Organization and Administration of Exercise Science | 3 |
| EXSC-3860 Basic Exercise Testing | 4 |
| EXSC-3870 Basic Exercise Prescription | 4 |
| EXSC-4600 Research Methods | 3 |
| EXSC-4700 Senior Research | 3 |
| EXSC-4880 Exercise Testing and Prescription for Special Populations | 3 |
| *EXSC-4990 Internship in Exercise Science | 9–12 |
| ² GBIO-2010 Human Anatomy and Physiology I | 4 |
| ³ GBIO-2015 Human Anatomy and Physiology II | 4 |
| MAHE-3030 Nutrition | 3 |

¹Satisfies physical science general education requirements

²Satisfies biological science general education requirements

³Counts toward the 16 semester hours of science and mathematics courses required for Bachelor of Science degree

*Capstone Course

Exercise Science Major Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0–4 |
| General Education Requirements | 44 |
| Exercise Science BS Major Requirements | 65–68 |
| Electives | 16–19 |
| Total (minimum, not including proficiency) | 128 |

Students preparing for physical therapy school should select the following course options, substitutions, and additions to the Bachelor of Science in exercise science curriculum.

| | |
|---|------|
| BIO-1115 Biology I: Cell Biology | 4 |
| (instead of GBIO-1000 Principles of Biology | 3.5) |
| GMTH-1030 Precalculus | 4 |
| CHEM-1110 General Chemistry I | 4 |
| and CHEM-1120 General Chemistry II | 4 |
| (instead of CHEM-1000 Principles of Chemistry | 4) |
| PHYS-1010 College Physics I | 4 |
| and PHYS-1020 College Physics II | 4 |
| PYCH-1600 General Psychology | 3 |
| PYCH-2600 Human Development: Life Span | 3 |
| PYCH-2610 Statistics | 3 |
| PYCH-2640 Abnormal Psychology | 3 |

Suggested Four-Year Curriculum for a Major in Exercise Science — BS

First Year:

| | |
|---|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech | 3 |
| ENG-1400 Composition | 3 |
| ESS-1350 Introduction to Exercise Science | 2 |
| ESS-1400 First Aid and Safety Education | 2 |
| GBIO-2010 Human Anatomy and Physiology I | 4 |
| GSS-1100 Politics and American Culture | 3 |
| PEF-1990 Physical Activity and Healthy Living | 2 |
| History Elective | 3 |
| Humanities Elective | 3 |
| Quantitative Requirement | 3 |
| Total | 31 |

Summer:

| | |
|---|-----------|
| EXSC-2000 Worksite Observation | 0 |
| Second Year: | |
| BTGE-2730 Old Testament Literature | 3 |
| BTGE-2740 New Testament Literature | 3 |
| ESS-2380 Motor Learning and Development | 3 |
| ESS-3800 Sport Psychology | 3 |
| ESS-3900 Physiology of Exercise | 3 |
| ESS-3920 Biomechanics | 3 |
| GBIO-2015 Human Anatomy and Physiology II | 4 |
| HUM-1400 Introduction to the Humanities | 3 |
| LIT-2XXX Literature Elective | 3 |
| Social Science/Global Awareness Elective | 3 |
| Total | 31 |

Third Year:

| | |
|---|-----------|
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| CHEM-1000 Principles of Chemistry | 4 |
| ESS-3940 Structural Kinesiology | 3 |
| EXSC-3010 Practicum I | 1 |
| EXSC-3860 Basic Exercise Testing | 4 |
| EXSC-3870 Basic Exercise Prescription | 4 |
| EXSC-4600 Research Methods | 3 |
| MAHE-3030 Nutrition | 3 |
| Electives | 3 |
| Total | 31 |

Fourth Year:

| | |
|---|-----------|
| EXSC-3020 Practicum II | 1 |
| EXSC-3810 Organization and Administration of Exercise Science | 3 |
| EXSC-4700 Senior Research | 3 |
| EXSC-4880 Exercise Testing and Prescription for Special Populations | 3 |
| EXSC-4990 Internship in Exercise Science | 9–12 |
| Electives | 13–16 |
| Total | 35 |

Graduate Program Pathway Option for Exercise Science — Bachelor of Science

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

A complete description of the general education requirements is found on page 26.

Sport Medicine — Bachelor of Science

The National Athletic Trainer's Association and the Commission on Accreditation for Athletic Training has mandated that the entry level credential for athletic training will be the Master of Athletic Training beginning in 2025. The **Bachelor of Science in Sport Medicine** has been designed to prepare students to be eligible to pursue credentialing as a BOC Certified Athletic Trainer by providing the necessary prerequisites for admission to MAT programs.

Course requirements involve 73–77 semester hours including:

| | |
|--|----|
| ATRN-1300 Emergency Care | 3 |
| ATRN-1500 Introduction to Athletic Training..... | 1 |
| ATRN-3500 Principles of Sport Medicine | 3 |
| BIO-1115 Biology I: Cell Biology..... | 4 |
| CHEM-1110 General Chemistry I..... | 4 |
| (or CHEM-1000 Principles of Chemistry | 4) |
| CHEM-1120 General Chemistry II | 4 |
| (or ESS-2380 Motor Learning and Development..... | 3) |
| ESS-3800 Sport Psychology | 3 |
| ESS-3900 Physiology of Exercise | 3 |
| ESS-3920 Biomechanics..... | 3 |
| ESS-3940 Structural Kinesiology | 3 |
| ESSE-3100 Strength and Conditioning | 3 |
| GBIO-2010 Human Anatomy and Physiology I | 4 |
| GBIO-2015 Human Anatomy and Physiology II | 4 |
| GBIO-2210 Principles of Microbiology | 4 |
| GMTH-1030 Precalculus..... | 4 |
| MAHE-3030 Nutrition..... | 3 |
| PHYS-1010 College Physics I | 4 |
| PYCH-2610 Statistics..... | 3 |

¹ATRN-6350 Organization and Administration in Athletic Training .3
(or EXSC-3810 Organization and Administration
of Exercise Science 3) |

¹ATRN-6560 Evaluation of Extremities 3 (or EXSC-3860 Basic Exercise Testing | 4) |

¹ATRN-6650 Therapeutic Exercise and Rehabilitation.....
(or EXSC-3870 Basic Exercise Prescription 4) |

¹ATRN-6600 Research in Athletic Training I.....
(or EXSC-4600 Research Methods..... 3) |

^{1**}ATRN-7950 Immersive Clinical Experience III 3 (or ^{1**}ATRN-4500 Senior Sport Medicine Capstone | 2) |

¹Graduate Level Course. Admission to the Masters in Athletic Training is a prerequisite for enrollment in these courses.

^{*}Capstone Course

Bachelor of Science in Sport Medicine Curriculum Summary

| | |
|--|-------|
| Proficiency Requirements | 0–4 |
| General Education Requirements | 41 |
| Bachelor of Science in Sport Medicine Requirements | 73–77 |
| Electives | 10–14 |
| Total (minimum, not including proficiency)..... | 128 |

Combined BS/MAT Program

Students pursuing the 5-year (3+2) Master of Athletic Training (MAT) program and formally admitted to the graduate program will begin graduate student status in year four. Upon completion of the final two years of the graduate curriculum, students in the 3+2 program will receive both a BS degree in Sport Medicine and a Master of Athletic Training degree. Students who are not accepted into the graduate program or who decide not to continue to completion of the MAT degree should switch back to the BS degree program and complete the requirements for the sport medicine major.

Suggested Four-Year Curriculum for a Major in Sport Medicine

First Year:

| | |
|---|-----------|
| ATRN-1500 Introduction to Athletic Training | 1 |
| BTGE-1725 The Bible and the Gospel | 3 |
| BTGE-2730 Old Testament Literature..... | 3 |
| BIO-1115 Biology I: Cell Biology..... | 4 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| GBIO-2010 Human Anatomy and Physiology I | 4 |
| GMTH-1030 Precalculus..... | 4 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Social Science Elective (PYCH-1600 recommended) | 3 |
| Total | 33 |

Second Year:

| | |
|--|--------------|
| BTGE-2740 New Testament Literature | 3 |
| BTGE-3755 Theology I | 3 |
| CHEM-1110 General Chemistry I..... | 4 |
| (or CHEM-1000 Principles of Chemistry | 4) |
| CHEM-1120 General Chemistry II | 4 |
| (or ESS-2380 Motor Learning and Development..... | 3) |
| ESS-3800 Sport Psychology | 3 |
| ESSE-3100 Strength and Conditioning | 3 |
| GBIO-2015 Human Anatomy and Physiology II | 4 |
| GSS-1100 Politics and American Culture..... | 3 |
| PYCH-2610 Statistics..... | 3 |
| Humanities/Global Awareness Elective | 3 |
| LIT-2XXX Literature Elective | 3 |
| Total | 35–36 |

Third Year:

| | |
|--|-----------|
| ATRN-1300 Emergency Care | 3 |
| ATRN-3500 Principles of Sport Medicine | 3 |
| BTGE-3765 Theology II | 3 |
| ESS-3900 Physiology of Exercise | 3 |
| ESS-3920 Biomechanics..... | 3 |
| ESS-3940 Structural Kinesiology | 3 |
| GBIO-2210 Principles of Microbiology | 4 |
| MAHE-3030 Nutrition | 3 |
| PHYS-1010 College Physics I | 4 |
| History Elective..... | 3 |
| Total | 32 |

Fourth Year:

| | |
|---|--------------|
| ATRN-4500 Senior Sport Medicine Capstone | 2 |
| EXSC-3810 Organization and Administration of Exercise Science.... | 3 |
| EXSC-3860 Basic Exercise Testing | 4 |
| EXSC-3870 Basic Exercise Prescription | 4 |
| EXSC-4600 Research Methods | 3 |
| Electives | 11–12 |
| Total | 27–28 |



Teacher Education Licensure Program

— Physical Education — Multi-Age — program in teach-out status

The **multi-age physical education major** prepares students to teach physical education in grades K to 12 in public and Christian schools. Students who complete this curriculum and licensure requirements will be licensed by the state of Ohio and qualify for certification from the Association of Christian Schools International (ACSI). For additional information about teaching and licensure requirements, see the School of Education and Social Work section (page 142).

Course requirements involve 80 semester hours including:

| | |
|---|-----------|
| Physical Education..... | 36 |
| ESS-1400 First Aid and Safety Education | 2 |
| ESS-2380 Motor Learning and Development..... | 3 |
| ESS-3890 Human Anatomy and Physiology for the Physical Educator | 5 |
| ESS-3900 Physiology of Exercise | 3 |
| ESS-3920 Biomechanics..... | 3 |
| ESSE-3100 Strength and Conditioning | 3 |
| MAHE-3130 School Health Program | 3 |
| MAPE-1000 Foundations of Physical Education | 1 |
| MAPE-1500 Teaching Sport Concepts and Skills..... | 1 |
| MAPE-2000 Recreational Games..... | 2 |
| MAPE-2300 Net Games..... | 2 |
| MAPE-2600 Invasion Games | 2 |
| MAPE-2900 Lifetime Physical Fitness | 2 |
| MAPE-4500 Curriculum Development in Physical Education... | 2 |
| PEAR-2100 Rhythms | 1 |
| School of Allied Health Elective | 1 |
| Professional Education | 44 |
| 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 and Writing in the Disciplines: AYA and Multi-Age..... | 3 |
| *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 | 3 |
| MAPE-4960 Field Experience | 4 |
| MAPE-4970 Field Experience (Special Populations)..... | 2 |
| *Capstone Course | |

Physical Education Multi-Age Major Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0-4 |
| General Education Requirements | 48-56 |
| Physical Education Multi-Age Major Requirements | 80 |
| Total (minimum, not including proficiency) | 128 |

A complete description of the general education requirements is found on page 26.

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

First Year:

| | |
|--|-------------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| EDUC-1000 The Education Profession..... | 2 |
| EDUC-1050 Preliminary Student Involvement..... | 0 |
| ENG-1400 Composition..... | 3 |
| ESS-1400 First Aid and Safety Education | 2 |
| ESSE-3100 Strength and Conditioning | 3 |
| GBIO-1000 Principles of Biology | 3.5 |
| HUM-1400 Introduction to the Humanities | 3 |
| MAPE-1000 Foundations of Physical Education | 1 |
| MAPE-1500 Teaching Sport Concepts and Skills..... | 1 |
| MAPE-2000 Recreational Games | 2 |
| PEAR-2100 Rhythms | 1 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Quantitative Elective | 3 |
| Total | 32.5 |

Second Year:

| | |
|--|-------------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| EDSP-2100 Exceptionalities and Behavior | 2 |
| EDUC-2050 Teaching Diverse Learners..... | 2 |
| EDUC-2100 e-Learning for Educators | 3 |
| EDUC-2500 Educational Psychology | 3 |
| ESS-2380 Motor Learning and Development..... | 3 |
| MAPE-2300 Net Games | 2 |
| MAPE-2600 Invasion Games | 2 |
| MAPE-2900 Lifetime Physical Fitness | 2 |
| Physical Science Elective | 3.5 |
| Social Science/ Global Awareness Elective..... | 3 |
| Total | 31.5 |

Third Year:

| | |
|--|-----------|
| BTGE-3755 Theology I | 3 |
| EDUC-4000 Reading and Writing in the Disciplines: AYA and Multi-Age | 3 |
| ESS-3890 Human Anatomy and Physiology for the Physical Educator | 5 |
| ESS-3900 Physiology of Exercise | 3 |
| ESS-3920 Biomechanics..... | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| MAHE-3130 School Health Program | 3 |
| MAPE-3600 Physical Education in Elementary School..... | 5 |
| School of Allied Health Elective | 1 |
| History Elective | 3 |
| Total | 32 |

Fourth Year:

| | |
|--|-----------|
| BTGE-3765 Theology II | 3 |
| EDUC-3100 Philosophical Foundations of Education | 3 |
| EDUC-4900 Student Teaching and Seminar: Multi-Age | 12 |
| LIT-2XXX Literature Elective | 3 |
| MAPE-4500 Curriculum Development in Physical Education..... | 2 |
| MAPE-4950 Methods of Teaching Secondary Physical Education.... | 3 |
| MAPE-4960 Field Experience | 4 |
| MAPE-4970 Field Experience (Special Populations)..... | 2 |
| Total | 32 |



Multi-Age Health and Physical Education — program in teach-out status

The multi-age health and physical education major prepares students to teach health and physical education in grades K to 12 in public and Christian schools. Students who complete this curriculum and licensure requirements will be licensed by the State of Ohio and qualify for certification from the Association of Christian Schools International (ACSI). For additional information about teaching and licensure requirements, see the School of Education and Social Work section (page 142).

Course requirements involve 87 semester hours including:

| | |
|---|------------|
| Physical Education..... | 38 |
| ESS-1400 First Aid and Safety Education | 2 |
| ESS-2380 Motor Learning and Development..... | 3 |
| ESS-3890 Human Anatomy and Physiology for the Physical Educator | 5 |
| ESS-3900 Physiology of Exercise | 3 |
| ESS-3920 Biomechanics..... | 3 |
| ESSE-3100 Strength and Conditioning | 3 |
| MAHE-3130 School Health Program | 3 |
| MAHE-3150 Health Concepts for the Educator | 3 |
| MAPE-1000 Foundations of Physical Education | 1 |
| MAPE-1500 Teaching Sport Concepts and Skills..... | 1 |
| MAPE-2000 Recreational Games..... | 2 |
| MAPE-2300 Net Games..... | 2 |
| MAPE-2600 Invasion Games | 2 |
| MAPE-2900 Lifetime Physical Fitness | 2 |
| MAPE-4500 Curriculum Development in Physical Education... | 2 |
| PEAR-2100 Rhythmic..... | 1 |
| Professional Education | 49 |
| 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 |
| EDUC-3100 Philosophical Foundations of Education | 3 |
| EDUC-4000 Reading and Writing in the Disciplines: AYA and Multi-Age..... | 3 |
| *EDUC-4900 Student Teaching and Seminar: Multi-Age..... | 12 |
| MAHE-4610 Teaching Health..... | 3 |
| MAPE-3600 Physical Education in the Elementary School..... | 5 |
| MAPE-4950 Methods of Teaching Secondary Physical Education | 3 |
| MAPE-4960 Field Experience | 4 |
| MAPE-4970 Field Experience (Special Populations)..... | 2 |
| *Capstone Course | |
| Multi-Age Health and Physical Education Major Curriculum Summary | |
| Proficiency Requirements | 0-4 |
| General Education Requirements..... | 48-56 |
| Physical Education Multi-Age Major Requirements | 87 |
| Total (minimum, not including proficiency) | 135 |

A complete description of the general education requirements is found on page 26.

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

First Year:

| | |
|--|-------------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| EDUC-1000 The Education Profession..... | 2 |
| EDUC-1050 Preliminary Student Involvement..... | 0 |
| ENG-1400 Composition..... | 3 |
| ESS-1400 First Aid and Safety Education | 2 |
| ESS-2380 Motor Learning and Development..... | 3 |
| ESSE-3100 Strength and Conditioning | 3 |
| GBIO-1000 Principles of Biology | 3.5 |
| HUM-1400 Introduction to the Humanities | 3 |
| MAPE-1000 Foundations of Physical Education | 1 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Quantitative Elective | 3 |
| Total | 31.5 |

Second Year:

| | |
|---|-------------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| EDSP-2100 Exceptionalities and Behavior | 2 |
| EDUC-2050 Teaching Diverse Learners..... | 2 |
| EDUC-2100 e-Learning for Educators..... | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| LIT-2XXX Literature Elective | 3 |
| MAPE-1500 Teaching Sport Concepts and Skills..... | 1 |
| MAPE-2000 Recreational Games | 2 |
| MAPE-2300 Net Games | 2 |
| MAPE-2600 Invasion Games | 2 |
| MAPE-2900 Lifetime Physical Fitness | 2 |
| PEAR-2100 Rhythms | 1 |
| History Elective | 3 |
| Physical Science Elective | 3.5 |
| Total | 35.5 |

Third Year:

| | |
|--|-----------|
| BTGE-3755 Theology I..... | 3 |
| BTGE-3765 Theology II | 3 |
| EDUC-2500 Educational Psychology | 3 |
| EDUC-3100 Philosophical Foundations of Education | 3 |
| EDUC-4000 Reading and Writing in the Disciplines: AYA and Multi-Age | 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-3150 Health Concepts for the Educator | 3 |
| MAPE-3600 Physical Education in Elementary School..... | 5 |
| Total | 37 |

Fourth Year:

| | |
|--|-----------|
| EDUC-4900 Student Teaching and Seminar: Multi-Age | 12 |
| MAHE-4610 Teaching Health..... | 3 |
| MAPE-4500 Curriculum Development in Physical Education..... | 2 |
| MAPE-4950 Methods of Teaching Secondary Physical Education.... | 3 |
| MAPE-4960 Field Experience | 4 |
| MAPE-4970 Field Experience (Special Populations)..... | 2 |
| Social Science/ Global Awareness Elective | 3 |
| Total | 29 |

Multi-Age Health and Physical Education Major Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0-4 |
| General Education Requirements..... | 48-56 |
| Physical Education Multi-Age Major Requirements | 87 |
| Total (minimum, not including proficiency) | 135 |

Psychology

Mission Statement

The Department of Psychology in the School of Allied Health and 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.

Programs of Study

The Department of Psychology offers a Bachelor of Arts degree with a major or a minor in psychology. For those majoring in psychology, each student chooses at least one concentration from the following:

- Addictions and Chemical Dependency
- Child and Family Studies
- Comprehensive Counseling
- Cross-Cultural Psychology
- Health Psychology and Public Health
- Interdisciplinary Studies (approval required)
- Neuropsychology
- Occupational Therapy
- Psychological Research

The psychology program is particularly useful to students who wish to earn a minor field of study at Cedarville, earn a double major, or take a sequence of courses in preparation for graduate school.

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.

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 national conferences like the International Congress of Qualitative Inquiry, the Christian Association for Psychological Studies, the Association for Psychological Science Annual Conference; and at regional conferences like the Midwestern and the Ohio Psychological Association conferences.

Students can join the academic organization Psi Kappa Theta (PKT, Psychology with a heart for God), 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, as well as many non-psychology-specific programs. In addition, graduates of the psychology major find ready placements in human service agencies after graduation. Careers pursued by psychology majors include:

- Author
- Behavior specialist
M/R populations
- Business-professionals
- Chaplain/pastor/minister
- Child therapist
- Child life specialist
- College counselor
- College professor/administrator
- Correctional institution counselor
- Counselor in local church
- Crisis pregnancy center director
- Dean of men/women
- Forensic psychologist
- Geriatric center counselor
- Guidance counselor
- Health psychologist in a hospital
- High school teachers and administrators
- Industrial psychologist
- Marriage and family therapist
- Medical doctor
- Missions agency counselor
- Occupational therapists
- Physician assistants
- Private practice
- Psychologist (clinical)
- School psychologist
- Social agency counselor
- State hospital counselor
- Substance abuse counselor
- Many more



Faculty

Luke Tse, Chair; Professor of Psychology. *Education:* BA, Embry-Riddle Aeronautical University, 1991; MDiv, New Orleans Baptist Theological Seminary, 1995; PhD, New Orleans Baptist Theological Seminary, 2000. Licensed Professional Counselor (LPC); Licensed Independent Marriage and Family Therapist (LIMFT); National Certified Counselor (NCC). At Cedarville since 2001.

Kristin DeWitt, Professor of Psychology. *Education:* BA, Clearwater Christian College, 1987; MA, Liberty University, 1992; MA, Argosy University, Tampa, 2002; PsyD, Argosy University, Tampa, 2005; Licensed Psychologist (FL). At Cedarville University since 2015.

Charles Dolph, Senior Professor of Psychology. *Education:* BA, Cedarville University, 1974; MEd, Georgia State University, 1982; PhD, Georgia State University, 1982. Licensed Psychologist (OH). At Cedarville since 1979.

Betsy Linnell, Assistant Professor of Psychology. *Education:* BA, Cedarville University, 2000; MS, University of Dayton, 2013; Licensed Supervising Professional Clinical Counselor (OH); Licensed Special Education Teacher, LD & DH K–12; Licensed Elementary Education Teacher, Prek-8. At Cedarville since 2014.

Chao Liu, Assistant Professor of Psychology. *Education:* BA, Beijing Normal University, 2009; MA, University of Maine, 2013; PhD, Oklahoma State University, 2018. At Cedarville since 2018.

Felisha Younkin, Assistant Professor of Psychology. *Education:* BA Miami University, 2007; MS, The Ohio State University, 2010; PhD, The Ohio State University, 2013; Licensed Independent Marriage and Family Therapist (OH). At Cedarville since 2016.



Emeriti

Robert Abbas, Professor Emeritus of Psychology. *Education:* BM, Northwestern College, 1959; BA, Wartburg College, 1962; MA, University of Northern Colorado, 1965; PhD, 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; ThB, Baptist Bible College, 1956; ThM, Dallas Theological Seminary, 1964; MS, North Texas State University, 1965; PhD, North Texas State University, 1971. At Cedarville from 1965–2001.

Milton Becknell, Professor of Psychology. *Education:* BA, University of North Texas, 1973; BSN, Texas Christian University, 1977; MSN, University of Texas at Austin, 1980; PhD, 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:* BS, National Taiwan University, 1977; MA, University of Iowa, 1980; PhD, University of Iowa, 1986. At Cedarville since 1991.

In Memoriam

Michael Firmin, Distinguished Professor of Psychology.

Education: BA, Calvary Bible College, 1983; MA, Calvary Theological Seminary, 1985; MS and PhD, Bob Jones University, 1987, 1988; MA, Marywood University, 1992; PhD, Syracuse University, 2000. National Certified Counselor (NCC); Licensed Psychologist (OH). At Cedarville 1998–2020.



Psychology

The **psychology major** provides students with general exposure to the field of psychology in preparation for graduate study in psychology and related fields or a number of other human service positions.

Course requirements involve 54–56 credits, including 39 semester credits of psychology core courses and an additional 15–17 semester hour concentration:

| | |
|--|-----------|
| Psychology Core Courses | 39 |
| PYCH-1600 General Psychology..... | 3 |
| PYCH-2600 Human Development: Lifespan..... | 3 |
| PYCH-2610 Statistics..... | 3 |
| PYCH-2640 Abnormal Psychology | 3 |
| PYCH-2650 Learning and Memory..... | 3 |
| PYCH-3610 History and Systems of Psychology | 3 |
| PYCH-3620 Psychology and Christianity..... | 3 |
| PYCH-3690 Social Psychology..... | 3 |
| PYCH-3730 Research Methods..... | 3 |
| PYCH-3900 Neurophysiological 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 |

*Capstone Courses

Select from the following concentrations 15–17

| | |
|--|-----------|
| Addictions and Chemical Dependency | 15 |
| PYCH-2840 Concepts of Chemical Dependency | 3 |
| PYCH-3000 Addictions | 3 |
| PYCH-3660 Professional Counseling | 3 |
| PYCH-3670 Group Dynamics | 3 |
| PYCH-3901 Medications and Behavior..... | 3 |
| Child and Family Studies | 15 |
| PYCH-3660 Professional Counseling | 3 |
| PYCH-3680 Counseling Couples and Families | 3 |
| PYCH-3701 Counseling Adolescents..... | 3 |
| PYCH-4700 Counseling Children | 3 |
| Minimum of 3 credits selected from: | 3 |
| PYCH-3130 Intimate Relationships..... | 3 |
| PYCH-3420 Human Sexuality | 3 |
| PYCH-3710 Adult Development and Aging | 3 |
| Comprehensive Counseling..... | 15 |
| PYCH-3660 Professional Counseling | 3 |
| PYCH-3670 Group Dynamics | 3 |
| PYCH-3680 Counseling Couples and Families | 3 |
| PYCH-3750 Psychological Testing..... | 3 |
| PYCH-4400 Counseling Skills | 3 |
| Cross-Cultural Psychology | 15 |
| PYCH-1800 Cross-Cultural Psychology..... | 3 |
| PYCH-3740 Qualitative Research..... | 3 |
| ** <i>Study abroad credits.....</i> | <i>9</i> |

**Students must complete the required internship at an international site. It is strongly recommended that students also minor in one of the language studies.

Health Psychology and Public Health

| | |
|---|---|
| PYCH-2850 Psychology of Adjustment..... | 3 |
| PYCH-3000 Addictions | 3 |
| PYCH-3380 Health Psychology | 3 |
| PYCH-3901 Medications and Behavior..... | 3 |

Choose a minimum of 3 credits selected from:

| | |
|--|---|
| GBIO-2010 Human Anatomy and Physiology I..... | 4 |
| GBIO-2210 Principles of Microbiology..... | 4 |
| MAHE-3030 Nutrition | 3 |
| NSG-1050 Health Promotion and Wellness | 3 |
| NSG-3170 Culture and Health | 3 |
| NSG-4000 Care of Populations | 6 |
| PPHR-1011 Profession of Pharmacy— Introduction to Public Health | 1 |
| PPHR-4280 Introduction to Health Behavior and Beliefs..... | 2 |
| PYCH-3760 Cognitive Neuroscience..... | 3 |
| PYCH-4950 Psychology Thesis..... | 3 |

Interdisciplinary Studies

| | |
|--------------------------|---|
| PYCH-XXXX Electives..... | 6 |
| Non-PYCH Electives..... | 9 |

Neuropsychology

| | |
|---|---|
| PYCH-3750 Psychological Testing..... | 3 |
| PYCH-3760 Cognitive Neuroscience | 3 |
| PYCH-3770 Experimental Design | 3 |
| PYCH-3901 Medications and Behavior..... | 3 |

Choose one from the following.....

| | |
|---|---|
| PYCH-3660 Professional Counseling | 3 |
| PYCH-4950 Psychology Thesis..... | 3 |

Occupational Therapy

| | |
|---|---|
| ALHL-2000 Medical Terminology..... | 3 |
| GBIO-2010 Human Anatomy and Physiology I..... | 4 |
| GBIO-2015 Human Anatomy and Physiology II | 4 |
| PYCH-3710 Adult Development and Aging | 3 |
| SOC-1300 Sociology | 3 |

Psychological Research

| | |
|---|---|
| PYCH-3720 Psychology of Personality | 3 |
| PYCH-3740 Qualitative Research..... | 3 |
| PYCH-3750 Psychological Testing | 3 |
| PYCH-3770 Experimental Design | 3 |
| PYCH-4950 Psychology Thesis..... | 3 |

Psychology Major Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0–4 |
| Other General Education Requirements | 45–53 |
| Psychology Major Requirements | 54–56 |
| Electives | 19–29 |
| Total (minimum, not including proficiency) | 128 |





A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Psychology

First Year:

| | |
|--|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| GSS-1100 Politics and American Culture | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 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-2650 Learning and Memory..... | 3 |
| Humanities/Global Awareness Elective | 3 |
| LIT-2XXX Literature Elective | 3 |
| Concentration Requirements | 6 |
| Total | 30 |

Third Year:

| | |
|---|-----------|
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| PYCH-3690 Social Psychology..... | 3 |
| PYCH-3730 Research Methods..... | 3 |
| PYCH-3900 Neurophysiological Psychology | 3 |
| Concentration Requirements | 9 |
| 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 |
| Total | 33 |

Suggested Three-Year Curriculum for a Major in Psychology

Fall Year 1:

| | |
|--|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| ENG-1400 Composition..... | 3 |
| GSS-1100 Politics and American Culture | 3 |
| PYCH-1000 Orientation to Psychology | 1 |
| PYCH-1600 General Psychology | 3 |
| Elective | 3 |
| Total | 16 |

Spring Year 1:

| | |
|--|-----------|
| BTGE-2730 Old Testament Literature..... | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| PYCH-1010 Writing in APA | 1 |
| PYCH-1020 Graduate School and Career Preparation | 1 |
| PYCH-2600 Human Development: Lifespan | 3 |
| PYCH-2640 Abnormal Psychology | 3 |
| Elective | 3 |
| Total | 16 |

Summer Year 1:

| | |
|--|-------------|
| BTGE-2740 New Testament Literature | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| LIT-2XXX Literature Elective | 3 |
| PYCH-2610 Statistics..... | 3 |
| Physical Science Elective | 3.5 |
| Total | 15.5 |

Fall Year 2:

| | |
|------------------------------------|-----------|
| PYCH-2650 Learning and Memory..... | 3 |
| PYCH-3690 Social Psychology..... | 3 |
| PYCH-3730 Research Methods | 3 |
| Concentration Requirements | 3 |
| Electives | 6 |
| Total | 18 |

Spring Year 2:

| | |
|---|-----------|
| BTGE-3755 Theology I | 3 |
| PYCH-3900 Neurophysiological Psychology | 3 |
| Humanities/Global Awareness Elective | 3 |
| Concentration Requirements | 6 |
| Total | 15 |

Summer Year 2:

| | |
|---|-------------|
| BTGE-3765 Theology II | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| PYCH-4640 Psychology Comprehensive Review | 3 |
| or (PYCH-4990 Psychology Internship | 3) |
| Biology Elective | 3.5 |
| History Elective | 3 |
| Total | 15.5 |

Fall Year 3:

| | |
|---|-----------|
| PYCH-3610 History and Systems of Psychology | 3 |
| PYCH-3620 Psychology and Christianity..... | 3 |
| PYCH-4640 Psychology Comprehensive Review | 3 |
| or (PYCH-4990 Psychology Internship | 3) |
| Concentration Requirements | 3 |
| Electives | 3 |
| Total | 15 |

Spring Year 3:

| | |
|----------------------------------|-----------|
| Concentration Requirements | 3 |
| Electives | 14 |
| Total | 17 |

Graduate Program Pathway Option for Psychology

The Bachelor of Arts in psychology program offers accelerated pathways to the Master of Business Administration degree and the Advanced Master of Divinity degree. cedarville.edu/gradpathways





Minors

Psychology Minor

The **psychology minor** helps students who find that general coursework in psychology will support their major field of study. In particular, understanding people and human dynamics and applying the scientific method to problem-solving strengthens students' vocational preparation and ultimate job success. The psychology minor is constructed to allow maximum flexibility across a large cross section of majors at Cedarville University. Course requirements involve 18 semester hours including:

| | |
|-------------------------------------|----|
| PYCH-1600 General Psychology | 3 |
| PYCH-2640 Abnormal Psychology | 3 |
| Electives in psychology..... | 12 |

Each of the following minors help prepare students who are interested in specific coursework to adequately present their education and training in psychology.

Addictions and Chemical Dependency Minor

Course requirements involve 18 semester hours including:

| | |
|--|---|
| PYCH-1600 General Psychology | 3 |
| PYCH 2640 Abnormal Psychology | 3 |
| PYCH-2840 Concepts of Chemical Dependency..... | 3 |
| PYCH-3000 Addictions | 3 |
| PYCH-3670 Group Dynamics | 3 |
| PYCH-3901 Medications and Behavior..... | 3 |

Child and Family Studies Minor

Course requirements involve 18 semester hours including:

| | |
|---|---|
| PYCH-1600 General Psychology | 3 |
| PYCH 2640 Abnormal Psychology | 3 |
| PYCH-3660 Professional Counseling | 3 |

Choose two from the following

| | |
|---|---|
| PYCH-3680 Counseling Couples and Families | 3 |
| PYCH-3701 Counseling Adolescents | 3 |
| PYCH-4700 Counseling Children..... | 3 |

Choose one from the following

| | |
|--|---|
| PYCH-3130 Intimate Relationships | 3 |
| PYCH-3420 Human Sexuality | 3 |
| PYCH-3710 Adult Development and Aging..... | 3 |

Comprehensive Counseling Minor

Course requirements involve 18 semester hours including:

| | |
|---|---|
| PYCH-1600 General Psychology | 3 |
| PYCH 2640 Abnormal Psychology | 3 |
| PYCH-3660 Professional Counseling | 3 |
| PYCH-3750 Psychological Testing..... | 3 |

Choose two from the following

| | |
|---|---|
| PYCH-3670 Group Dynamics..... | 3 |
| PYCH-3680 Counseling Couples and Families | 3 |
| PYCH-4400 Counseling Skills..... | 3 |

Cross-Cultural Psychology Minor

Course requirements involve 18 semester hours including:

| | |
|--|---|
| PYCH-1600 General Psychology | 3 |
| PYCH-1800 Cross-Cultural Psychology..... | 3 |
| PYCH 2640 Abnormal Psychology | 3 |
| PYCH-3740 Qualitative Research..... | 3 |
| *PYCH-XXXX Study-Abroad Electives..... | 6 |

*Students must complete at least 6 credit hours of a semester-long studies abroad through the University's Office of CU Study Abroad and complete their internship abroad. A foreign language minor is encouraged.

Health Psychology and Public Health Minor

| | |
|--|---|
| Course requirements involve 21 semester hours including: | |
| PYCH-1600 General Psychology | 3 |
| PYCH 2640 Abnormal Psychology | 3 |
| PYCH-2850 Psychology of Adjustment..... | 3 |
| PYCH-3000 Addictions | 3 |
| PYCH-3380 Health Psychology | 3 |
| PYCH-3901 Medications and Behavior..... | 3 |

Choose one or more from the following

| | |
|---|---|
| GBIO-2010 Human Anatomy and Physiology I..... | 4 |
| GBIO-2210 Principles of Microbiology | 4 |
| MAHE-3030 Nutrition..... | 3 |
| NSG-1050 Health Promotion and Wellness | 3 |
| NSG-3170 Culture and Health | 3 |
| NSG-4000 Care of Populations..... | 6 |
| PPHR-1011 Profession of Pharmacy-Intro to Public Health...1 | 1 |
| PPHR-4280 Introduction to Health Behavior and Beliefs.....2 | 2 |
| PYCH-3760 Cognitive Neuroscience..... | 3 |
| PYCH-3900 Neurophysiological Psychology | 3 |
| PYCH-4950 Psychology Thesis..... | 3 |

Neuropsychology Minor

Course requirements involve 18 semester hours including:

| | |
|---|---|
| PYCH-1600 General Psychology | 3 |
| PYCH 2640 Abnormal Psychology | 3 |
| PYCH-3750 Psychological Testing..... | 3 |
| PYCH-3760 Cognitive Neuroscience | 3 |
| PYCH-3901 Medications and Behavior..... | 3 |

Select one from the following

| | |
|---|---|
| PYCH-3770 Experimental Design (for psychology majors)...3 | 3 |
| PYCH-3900 Neurophysiological Psychology (for non-psychology majors).....3 | 3 |

Psychological Research Minor

Course requirements involve 18 semester hours including:

| | |
|---|---|
| PYCH-1600 General Psychology | 3 |
| PYCH 2640 Abnormal Psychology | 3 |
| PYCH-3720 Psychology of Personality | 3 |
| PYCH-3740 Qualitative Research | 3 |
| PYCH-3750 Psychological Testing..... | 3 |
| PYCH-3770 Experimental Design..... | 3 |



| | |
|--|----|
| Art, Design, and Theatre | 50 |
| Majors | |
| Industrial and Innovative Design | 53 |
| Studio Art | 54 |
| Theatre | 55 |
| Visual Communication Design | 56 |
| Minors | |
| Arts Administration Minor | 58 |
| Graphic Design Minor | 58 |
| Interactive Web Design Minor | 58 |
| Studio Art Minor | 58 |
| Theatre Minor | 59 |
| Theatre Design Minor | 59 |
| Theatre Performance Minor | 59 |
| English, Literature, and Modern Languages | 60 |
| Majors | |
| English | 63 |
| Linguistics | 66 |
| Language Arts Education — Integrated | 64 |
| Spanish | 68 |
| Spanish Education — Multi-Age | 69 |
| Pathways to a Graduate Degree | |
| Graduate Program Pathway Option for Teacher Education Licensure Program Language Arts Education — Integrated | 64 |
| Graduate Program Pathway Option for Linguistics | 67 |
| Minors | |
| Asian Studies Minor | 70 |
| British Studies Minor | 70 |
| Creative Writing Minor | 70 |
| Editing and Publishing Minor | 70 |
| French Minor | 70 |
| German Minor | 70 |
| Latin American Studies Minor | 71 |
| Linguistics Minor | 71 |
| Literature Minor | 71 |
| Middle Eastern Studies Minor | 71 |
| Spanish Minor | 71 |
| Spanish for Healthcare Personnel Minor | 71 |
| Spanish for Professionals Minor | 72 |
| Teaching English to Speakers of Other Languages (TESOL) Minor | 72 |
| TESOL Endorsement | 72 |
| Western European Studies Minor | 72 |
| Special Program | |
| Certificate in Medical Spanish Program | 72 |

| | |
|---|-----|
| History and Government | 73 |
| Majors | |
| Criminal Justice | 75 |
| Forensic Science | 76 |
| History | 77 |
| International Studies | 79 |
| Political Science | 80 |
| Prelaw | 81 |
| Social Studies Education — Integrated | 82 |
| Pathways to a Graduate Degree | |
| Graduate Program Pathway Option for History | 78 |
| Graduate Program Pathway Option for Political Science | 80 |
| Minors | |
| Church History Minor | 83 |
| Criminal Justice Minor | 83 |
| History Minor | 83 |
| International Studies Minor | 83 |
| National Security Minor | 84 |
| Political Science Minor | 84 |
| Public Administration Minor | 84 |
| Public Policy Minor | 84 |
| Sociology Minor | 84 |
| Music and Worship | 85 |
| Majors | |
| Composition | 88 |
| Keyboard Pedagogy | 90 |
| Music | 91 |
| Performance | 94 |
| Bachelor of Music Education | 97 |
| Worship | 99 |
| Pathways to a Graduate Degree | |
| Graduate Program Pathway Option for Music | 93 |
| Graduate Program Pathway Option for Worship | 101 |
| Minors | |
| Music Minor | 101 |
| Music Technology Minor | 101 |
| Songwriting Minor | 101 |
| Worship Minor | 101 |

Art, Design, and Theatre

Mission Statement

The Department of Art, Design, and Theatre in the Cedarville University School of Arts and Humanities 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.

Programs of Study

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

Bachelor of Arts (BA) in:

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

Minors

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

Personal Requirements

Scholarships

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

Portfolio

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

Department Requirements

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

Theatre Program

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

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

Freshman Review

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

Sophomore Review

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





Transfer Review

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

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.

Course 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.

Program Tuition: Industrial and Innovative Design

As a premium program (and in lieu of individual course fees, text books, major project supplies and technology fees while at the ICC), note that IID block tuition during the two years at the ICC is different from general block tuition. The rates can be viewed online at cedarville.edu/costs in the "Other Tuition Rates" section.

Theatre Requirements

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

Technical Resources

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

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

The computer network provides tools for research and design.



Cocurricular Opportunities

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

Theatre Cocurricular Opportunities

Each year the Department of Art, Design, and Theatre presents three major theatrical productions. In recent years the department has produced *Shakespeare's The Comedy of Errors*, *Agatha Christie's Appointment With Death*, *Neil Simon's Fools*, *Anne of Green Gables*, and *Meet Me in St. Louis*. Performances are often sold out and are always greatly appreciated by the University family as well as many community guests.

Career Opportunities

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

- Actor
- Art preparator
- Art therapist
- Arts administrator
- College professor
- Community arts manager
- Consumer product designer
- Exterior space designer
- Graphic designer
- Illustrator
- Interior space designer
- Retail art salesperson
- School teacher (elementary and secondary Christian or public schools)
- Studio artist
- Studio teacher
- Theatre director
- Transportation designer
- Web designer



Faculty

Aaron Huffman, Chair; Associate Professor of Graphic Design. *Education:* BA, Cedarville University, 2007; MFA, University of Notre Dame, 2011. At Cedarville since 2011.

Caleb Booth, Assistant Professor of Studio Art. *Education:* BA, Union University, 2011; MFA, New York Academy of Art, 2016. At Cedarville since 2020.

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

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

Holly Hoover, Instructor of Web Design. *Education:* BA, Cedarville University, 2020. At Cedarville since 2023.

Catelyn Mailoux, Assistant Professor of Studio Art. *Education:* BFA, University of Wisconsin-Eau Claire, 2014; MFA, The Ohio State University, 2018. At Cedarville since 2020.

Diane A. Merchant, Professor of Theatre. *Education:* BA, Cedarville University, 1978; postgraduate work in theatre, Kent State University, 1983–84; MA, The Ohio State University, 1989; PhD, The Ohio State University, 1996. At Cedarville since 1989.

Rebekah Priebe, Associate Professor of Theatre. *Education:* BA, Friends University, 2009; MA, Kansas State University, 2013; MFA, The Ohio State University, 2016. At Cedarville since 2016.

Stacey Stratton, Assistant Professor of Theatre: Performance. *Education:* BS, Murray State, 1994; MFA, University of Mississippi, 1997. At Cedarville since 2019.

Technical Support Staff

Timothy J. Phipps, Technical Director/Production Manager. *Education:* BA, Cedarville University, 2002; MFA, Radford University, 2019. At Cedarville since 2005.

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

Emeriti

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

Terry Chamberlain, Associate Professor Emeritus of Fine Art. *Education:* BS, Bob Jones University, 1970; MA, Bob Jones University, 1972. At Cedarville since 1996.

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





Industrial and Innovative Design

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

The following requirements involve 83 semester hours:

| Industrial and Innovative Design Core | 83 |
|--|-----------|
| ART-1100 Introduction to Art | 3 |
| ART-1110 Drawing Foundations | 3 |
| ART-1230 Two-Dimensional Design..... | 3 |
| ART-2230 Three-Dimensional Design | 3 |
| EGME-1810 Engineering Graphics..... | 1 |
| IDES/VCD-2000 History and Influences of Design..... | 3 |
| IDES-3110 Drawing in Dynamic Perspective I | 3 |
| IDES-3120 Drawing in Dynamic Perspective II..... | 3 |
| IDES-3210 Language of Line | 4 |
| IDES-3220 Innovative Media Systems | 4 |
| IDES-3310 Fundamentals of Surface Development I | 3 |
| IDES-3320 Fundamentals of Surface Development II | 3 |
| IDES-3410 Three-Dimensional Composition | 4 |
| IDES-3420 Three-Dimensional Presentation | 4 |
| IDES-4010 Consumer Product Design..... | 4 |
| IDES-4020 Interior Space Design | 3 |
| IDES-4030 Transportation Design | 4 |
| IDES-4040 Architectural/Exterior Space Design..... | 4 |
| IDES-4200 Professional and Ethical Practices in Design | 3 |
| IDES-4300 Design Project: Selection Statement, Research and Scope | 3 |
| IDES-4400 Design Project and Presentation | 10 |
| VCD-1050 Applied Design: Tech Tools I..... | 3 |
| VCD-1200 Design Thinking | 2 |
| Electives selected from the following | 3 |
| ART-2140 Ceramics Foundations..... | 3 |
| ART-2160 Sculpture Foundations | 3 |
| ART-3230 Watercolor | 3 |
| BUS-2100 Business Communication | 3 |
| MGMT-3510 Entrepreneurship and Small Business Management..... | 3 |
| VCD-2050 Applied Design: Tech Tools II | 3 |

Industrial and Innovative Design Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0–4 |
| Other General Education Requirements..... | 48–56 |
| Industrial and Innovative Design Major Requirements | 83 |
| Total (minimum, not including proficiency) | 131 |



A complete description of the general education requirements is found on page 26.

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

First Year:

| | |
|--|-------------|
| ART-1100 Introduction to Art | 3 |
| ART-1110 Drawing Foundations | 3 |
| ART-1230 Two-Dimensional Design..... | 3 |
| BTGE-1725 The Bible and the Gospel | 3 |
| BTGE-2730 Old Testament Literature..... | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| GBIO-1000 Principles of Biology | 3.5 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| VCD-1050 Applied Design: Tech Tools I..... | 3 |
| Quantitative Elective | 3 |
| Total | 32.5 |

Second Year:

| | |
|---|-------------|
| ART-2230 Three-Dimensional Design | 3 |
| BTGE-2740 New Testament Literature | 3 |
| BTGE-3755 Theology I | 3 |
| EGME-1810 Engineering Graphics..... | 1 |
| GSS-1100 Politics and American Culture..... | 3 |
| IDES/VCD-2000 History and Influences of Design..... | 3 |
| VCD-1200 Design Thinking | 2 |
| History Elective..... | 3 |
| Industrial and Innovative Design Elective | 3 |
| LIT-2XXX Literature Elective | 3 |
| Physical Science Elective | 3.5 |
| Social Science/Global Awareness Elective | 3 |
| Total | 33.5 |

Third Year:

| | |
|--|-----------|
| HUM-1400 Introduction to the Humanities..... | 3 |
| BTGE-3765 Theology II | 3 |
| IDES-3110 Drawing in Dynamic Perspective I | 3 |
| IDES-3120 Drawing in Dynamic Perspective II..... | 3 |
| IDES-3210 Language of Line | 4 |
| IDES-3220 Innovative Media Systems | 4 |
| IDES-3310 Fundamentals of Surface Development I | 3 |
| IDES-3320 Fundamentals of Surface Development II | 3 |
| IDES-3410 Three-Dimensional Composition | 4 |
| IDES-3420 Three-Dimensional Presentation | 4 |
| Total | 34 |

Fourth Year:

| | |
|---|-----------|
| IDES-4010 Consumer Product Design..... | 4 |
| IDES-4020 Interior Space Design | 3 |
| IDES-4030 Transportation Design | 4 |
| IDES-4040 Architectural/Exterior Space Design..... | 4 |
| IDES-4200 Professional and Ethical Practices in Design | 3 |
| IDES-4300 Design Project: Selection Statement, Research, Scope .. | 3 |
| IDES-4400 Design Project and Presentation | 10 |
| Total | 31 |



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 Core | 54 |
| ART-1100 Introduction to Art | 3 |
| ART-1110 Drawing Foundations | 3 |
| ART-1230 Two-Dimensional Design | 3 |
| ART-2110 Intermediate Drawing | 3 |
| ART-2130 Painting Foundations | 3 |
| ART-2140 Ceramics Foundations | 3 |
| ART-2160 Sculpture Foundations | 3 |
| ART-2170 Printmaking Foundations | 3 |
| ART-2230 Three-Dimensional Design | 3 |
| ART-3310 Art History I | 3 |
| ART-3320 Art History II | 3 |
| *ART-4300 Art Exhibition | 3 |
| ART-4400 20th Century Art | 3 |
| Studio Art courses selected from | 15–24 |
| ART-3110 Advanced Drawing | 3–6 |
| ART-3130 Intermediate Painting | 3 |
| ART-3140 Intermediate Ceramics | 3 |
| ART-3160 Intermediate Sculpture | 3 |
| ART-3170 Intermediate Printmaking | 3 |
| ART-4130 Advanced Painting | 3–6 |
| ART-4140 Advanced Ceramics | 3 |
| ART-4160 Advanced Sculpture | 3–6 |
| ART-4170 Advanced Printmaking | 3–6 |
| Electives selected from the following | 0–8 |
| ART-2250 Creative Photography | 3 |
| ART-3230 Watercolor | 3 |
| ART-3250 Studio Photography | 3 |
| ART-4440 Installation Art | 3 |
| BUS-2100 Business Communication | 3 |
| VCD-1050 Applied Design: Tech Tools I | 3 |
| VCD-2050 Applied Design: Tech Tools II | 3 |
| VCD-2200 Typography | 3 |
| VCD-2400 Graphic Design I | 3 |
| VCD-2600 Web Design I | 3 |
| THTR-3850 Seminar in Art Administration and Art Law | 2 |

*Capstone Course

Studio Art Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0–4 |
| Other General Education Requirements | 48–56 |
| Studio Art Major Requirements | 62 |
| General Electives | 10–18 |
| Total (minimum, not including proficiency) | 128 |

A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Studio Art

First Year:

| | |
|---|-------------|
| ART-1100 Introduction to Art | 3 |
| ART-1110 Drawing Foundations | 3 |
| ART-1230 Two-Dimensional Design | 3 |
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech | 3 |
| ENG-1400 Composition | 3 |
| GBIO-1000 Principles of Biology | 3.5 |
| GSS-1100 Politics and American Culture | 3 |
| HUM-1400 Introduction to the Humanities | 3 |
| PEF-1990 Physical Activity and Healthy Living | 2 |
| LIT-2XXX Literature Elective | 3 |
| Total | 32.5 |

Second Year:

| | |
|--|-----------|
| ART-2110 Intermediate Drawing | 3 |
| ART-2130 Painting Foundations | 3 |
| ART-2160 Sculpture Foundations | 3 |
| ART-2230 Three-Dimensional Design | 3 |
| ART-3310 Art History I | 3 |
| ART-3320 Art History II | 3 |
| BTGE-2730 Old Testament Literature | 3 |
| BTGE-2740 New Testament Literature | 3 |
| Social Science/Global Awareness Elective | 3 |
| Quantitative Elective | 3 |
| Total | 30 |

Third Year:

| | |
|--|-----------|
| ART-2140 Ceramics Foundations | 3 |
| ART-2170 Printmaking Foundations | 3 |
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| Studio Art Electives | 15 |
| Electives | 6 |
| Total | 33 |

Fourth Year:

| | |
|---------------------------------|-------------|
| ART-4300 Art Exhibition | 3 |
| ART-4400 20th Century Art | 3 |
| Art Electives | 8 |
| History Elective | 3 |
| Physical Science Elective | 3.5 |
| Electives | 12 |
| Total | 32.5 |





Theatre

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

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

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

Course requirements involve 67 semester hours including:

| | |
|---|--------------|
| Theatre core requirements | 38–39 |
| THTR-1300 Introduction to Technical Theatre | 3 |
| THTR-1410 Introduction to Theatre | 3 |
| THTR-1460 Theatre Participation (every semester) | 0–1 |
| THTR-1500 Introduction to Production Design | 3 |
| THTR-2130 Dramatic Literature..... | 3 |
| THTR-2200 Stage Management | 2 |
| THTR-2350 Directing I..... | 3 |
| THTR-2430 Acting I | 3 |
| THTR-2470 Makeup Design..... | 2 |
| THTR-3420 Theatre History I | 3 |
| THTR-3430 Theatre History II | 3 |
| THTR-3470 Dramaturgy | 3 |
| THTR-4400 Professional Preparation Seminar..... | 2 |
| THTR-4630 The Christian in Theatre..... | 2 |
| Select one of the following with theatre faculty approval... 3 | |
| THTR-4840 Senior Theatre Project (capstone)..... | 3 |
| THTR-4850 Theatre Capstone Internship (capstone) | 3 |
| Theatre Major Electives..... | 10–11 |
| Choose credits of the following courses (not yet completed) | |
| THTR-2510 The Arts and Social Change | 3 |
| THTR-3465 Performing Shakespeare | 3 |
| THTR-3610 Theatre for Young People | 3 |
| THTR-3650 Playwriting | 3 |
| THTR-3850 Seminar in Arts Administration and Arts Law..... | 2 |
| THTR-4230 Stage Combat..... | 3 |
| THTR-4810 Theatre Internship..... | 0–6 |
| Any THTR-3000–4000 course | 2–3 |
| Concentration selected from the following | 18 |
| Design Concentration..... | 18 |
| ART-1100 Introduction to Art..... | 3 |
| THTR-3540 Period Styles for Production | 3 |
| Select two of the following | 6 |
| THTR-3301 Technical Theatre Practicum: Costume .. 3 | |
| THTR-3302 Technical Theatre Practicum: Lighting ... 3 | |
| THTR-3303 Technical Theatre Practicum: Scenic 3 | |
| THTR-3304 Technical Theatre Practicum: Sound..... 3 | |
| Select two of the following | 6 |
| THTR-3501 Advanced Theatrical Design: Costume .. 3 | |
| THTR-3502 Advanced Theatrical Design: Lighting.... 3 | |
| THTR-3503 Advanced Theatrical Design: Scenic 3 | |
| THTR-3504 Advanced Theatrical Design: Sound..... 3 | |

Performance Concentration..... 18

| | |
|--|---|
| THTR-1230 Voice for the Performer | 3 |
| THTR-1430 Stage Movement..... | 3 |
| THTR-3460 Acting II..... | 3 |
| THTR-3510 Directing II..... | 3 |
| THTR-3530 Musical Theatre Techniques | 3 |
| THTR-4430 Acting III..... | 3 |

Theatre Major Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0–4 |
| General Education Requirements..... | 45–53 |
| Theatre Major Requirements | 67 |
| Electives | 8–16 |
| Total (minimum, not including proficiency) | 128 |

A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Theatre

First Year:

| | |
|--|-------------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| THTR-1300 Introduction to Technical Theatre | 3 |
| THTR-1410 Introduction to Theatre | 3 |
| THTR-1460 Theatre Participation | 0–1 |
| THTR-1460 Theatre Participation | 0–1 |
| THTR-1500 Introduction to Production Design | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Biology Elective | 3.5 |
| Total | 30.5 |

Second Year:

| | |
|--|-----------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| THTR-1460 Theatre Participation | 0–1 |
| THTR-1460 Theatre Participation | 0–1 |
| THTR-2130 Dramatic Literature | 3 |
| THTR-2200 Stage Management | 2 |
| THTR-2350 Directing I..... | 3 |
| THTR-2430 Acting I | 3 |
| THTR-2470 Makeup Design..... | 2 |
| Theatre Concentration Courses | 9 |
| Electives | 3 |
| Total | 31 |

Third Year:

| | |
|---------------------------------------|-------------|
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| THTR-1460 Theatre Participation | 0–1 |
| THTR-1460 Theatre Participation | 0–1 |
| THTR-3420 Theatre History I | 3 |
| THTR-3430 Theatre History II | 3 |
| THTR-3470 Dramaturgy | 3 |
| History Elective | 3 |
| Physical Science Elective | 3.5 |
| Quantitative Elective | 3 |
| Theatre Major Electives | 4 |
| Electives | 4 |
| Total | 32.5 |

Fourth Year:

| | |
|---|-----------|
| THTR-1460 Theatre Participation | 0–1 |
| THTR-1460 Theatre Participation | 0–1 |
| THTR-4400 Professional Preparation Seminar..... | 2 |
| THTR-4630 The Christian in Theatre | 2 |
| THTR-4840/THTR-4850 Project/Internship | 3 |
| Theatre Concentration Courses | 9 |
| Theatre Major Electives | 6 |
| Social Science/Global Awareness Elective | 3 |
| Electives | 9 |
| Total | 34 |

Visual Communication Design

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

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

The following requirements involve 67 semester hours:

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



Electives selected from the following.....0–6

| | |
|--|---|
| ART-2110 Intermediate Drawing..... | 3 |
| ART-2130 Painting Foundations..... | 3 |
| ART-2140 Ceramics Foundations..... | 3 |
| ART-2160 Sculpture Foundations | 3 |
| ART-2170 Printmaking Foundations..... | 3 |
| ART-2250 Creative Photography..... | 3 |
| ART-3250 Studio Photography..... | 3 |
| BRDM-2606 Introduction to Computer Animation | 2 |
| BRDM-3630 Principles of Computer Animation | 3 |
| BRDM-3611 Web Analytics | 3 |
| CS-1210 C++ Programming | 2 |
| ITM-2300 Introduction to Programming | 3 |
| PWID-4050 Writing and Strategy for the Web | 3 |
| Any 3000- or 4000-level VCD course | 3 |

Graphic Design Concentration.....18

| | |
|--|---|
| BRDM-2350 Introduction to Motion Design..... | 3 |
| VCD-3300 Production Design I | 3 |
| VCD-3400 Graphic Design II..... | 3 |
| VCD-4300 Production Design II | 3 |
| VCD-4400 Graphic Design Capstone | 3 |
| Electives selected from the following:..... | 3 |

VCD-3600 Web Design II

3

VCD-3700 User Experience and Interface Design

3

Interactive Web Design Concentration

18

| | |
|---|---|
| VCD-3600 Web Design II | 3 |
| VCD-3650 Scripting for Interactivity | 3 |
| VCD-3700 User Experience and Interface Design | 3 |
| VCD-4600 Web Design III | 3 |
| VCD-4700 Interactive Design Capstone..... | 3 |
| Electives selected from the following:..... | 3 |

VCD-3300 Production Design I.....

3

VCD-3400 Graphic Design II

3

Visual Communication Design Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0–4 |
| Other General Education Requirements | 48–56 |
| Visual Communication Design Major Requirements | 67 |
| General Electives | 5–13 |
| Total (minimum, not including proficiency) | 128 |





A complete description of the general education requirements is found on page 26.

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

First Year:

| | |
|--|-------------|
| ART-1100 Introduction to Art | 3 |
| ART-1110 Drawing Foundations | 3 |
| ART-1230 Two-Dimensional Design | 3 |
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech | 3 |
| ENG-1400 Composition | 3 |
| GBIO-1000 Principles of Biology | 3.5 |
| VCD-1050 Applied Design: Tech Tools I | 3 |
| VCD-1200 Design Thinking | 2 |
| VCD-2050 Applied Design: Tech Tools II | 3 |
| Quantitative Elective | 3 |
| Total | 32.5 |

Second Year:

| | |
|--|-------------|
| ART-2230 Three-Dimensional Design | 3 |
| BTGE-2730 Old Testament Literature | 3 |
| BTGE-2740 New Testament Literature | 3 |
| GSS-1100 Politics and American Culture | 3 |
| PEF-1990 Physical Activity and Healthy Living | 2 |
| VCD/IDES-2000 History and Influences of Design | 3 |
| VCD-2200 Typography | 3 |
| VCD-2400 Graphic Design I | 3 |
| VCD-2600 Web Design I | 3 |
| VCD-3200 Portfolio I | 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 |
| Social Science Elective/Global Awareness | 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 |
| Electives | 13 |
| Total | 34 |



Minors

Arts Administration Minor

Course requirements for the minor in arts administration involve 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 | 3 |
| THTR-3850 Seminar in Arts Administration and Arts Law | 2 |
| THTR-4400 Professional Preparation Seminar..... | 2 |

Electives selected from the following.....2–3

| | |
|--|---|
| ART-1100 Introduction to Art..... | 3 |
| PFMU-3XXX Large Ensemble | 1 |
| THTR-3610 Theatre for Young People..... | 3 |
| WSHP-2060 Music and the Arts in Worship..... | 3 |

Graphic Design Minor

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

Graphic Design Core20

| | |
|---|---|
| ART-1230 Two-Dimensional Design..... | 3 |
| VCD-1050 Applied Design: Tech Tools I | 3 |
| VCD-1200 Design Thinking | 2 |
| VCD-2200 Typography | 3 |
| VCD-2400 Graphic Design I | 3 |
| VCD-3300 Production Design I | 3 |

Graphic Design Electives selected from3

| | |
|--|---|
| VCD-2050 Applied Design: Tech Tools II | 3 |
| VCD-3400 Graphic Design II..... | 3 |
| VCD-4300 Production Design II | 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.

Interactive Web Design Core17

| | |
|---|---|
| VCD-1050 Applied Design: Tech Tools I | 3 |
| VCD-1200 Design Thinking | 2 |
| VCD-2600 Web Design I..... | 3 |
| VCD-3600 Web Design II..... | 3 |
| VCD-3650 Scripting for Interactivity..... | 3 |
| VCD-3700 User Experience and Interface Design | 3 |

Elective selected from the following.....3

| | |
|--|---|
| BRDM-2350 Introduction to Motion Design..... | 3 |
| BRDM-3611 Web Analytics | 3 |
| ITM-2300 Introduction to Programming | 3 |
| PWID-4050 Writing and Strategy for the Web | 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 Core12

| | |
|---|---|
| ART-1100 Introduction to Art | 3 |
| ART-1110 Drawing Foundations | 3 |
| ART-1230 Two-Dimensional Design..... | 3 |
| ART-2230 Three-Dimensional Design | 3 |
| ART-2XXX, 3XXX, 4XXX Electives.....6 | |





Theatre Minor

| |
|---|
| Course requirements for the minor in theatre involve 16 semester hours selected from the following courses: |
| THTR-1410 Introduction to Theatre 3 |
| THTR-1460 Theatre Participation 0-1 |
| THTR-1460 Theatre Participation 0-1 |
| THTR-2430 Acting I 3 |
| Theatre Electives 8-10 |

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 9-11 |
| THTR-1300 Introduction to Technical Theatre 3 |
| THTR-1410 Introduction to Theatre 3 |
| THTR-1460 Theatre Participation 0-1 |
| THTR-1460 Theatre Participation 0-1 |
| THTR-1500 Introduction to Production Design 3 |
| Electives selected from the following 7-10 |
| ART-1100 Introduction to Art 3 |
| THTR-2470 Makeup Design 2 |
| THTR-330X Technical Theatre Practicum Elective 3 |
| THTR-350X Advanced Theatrical Design Elective 3 |
| THTR-3540 Period Styles for Production 3 |



Theatre Performance Minor

Course requirements for the minor in theatre performance involve 18–19 semester hours selected from the following courses:

| |
|--|
| Theatre Performance minor core 15-17 |
| THTR-1230 Voice for the Performer 3 |
| THTR-1410 Introduction to Theatre 3 |
| THTR-1430 Stage Movement 3 |
| THTR-1460 Theatre Participation 0-1 |
| THTR-1460 Theatre Participation 0-1 |
| THTR-2430 Acting I 3 |
| THTR-2350 Directing I 3 |
| or THTR-3460 Acting II 3 |
| Electives selected from the following 2-5 |
| THTR-2470 Makeup Design 2 |
| THTR-2510 The Arts and Social Change 3 |
| THTR-3465 Performing Shakespeare 3 |
| THTR-3530 Musical Theatre Techniques 3 |
| THTR-3610 Theatre for Young People 3 |
| THTR-4230 Stage Combat 3 |
| THTR-4430 Acting III 3 |



English, Literature, and Modern Languages

Mission Statement

The Department of English, Literature, and Modern Languages in the Cedarville University School of Arts and Humanities will:

- Instruct students to write well with wisdom, beauty, and integrity.
- Teach students to read literature with Christlike empathy and biblical discernment.
- Instruct students in the historical, social, and intellectual background of a variety of texts and cultures.
- Teach students to analyze language structure, change, and use in society.
- Prepare students for graduate and professional work in their respective fields to be salt and light in a global community.

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
- British Studies
- Creative Writing
- Editing and Publishing
- French
- German
- Latin American Studies
- Linguistics
- Literature
- Middle Eastern Studies
- Spanish
- Spanish for Healthcare Personnel
- Spanish for Professionals
- Teaching English to Speakers of Other Languages (TESOL)
- Western European Studies

Special Program

- Certificate in Medical Spanish Program

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.

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 27. Students with previous language study may be eligible for test-out credit for first- and/or second-year language courses and should contact the department or the Office of the Registrar for details. Language students are also encouraged to consider the study abroad options.

Writing Center

The Cedarville University Writing Center exists to help writers at all levels of proficiency, from all academic disciplines develop effective writing skills. This development takes place primarily through one-on-one peer consultations that are adapted to individual writers' needs. Such consultations will be competent and timely, will occur in a comfortable, nonthreatening atmosphere, and will address all writing projects in any stage of the writing process, from brainstorming to revision. These consultations focus primarily on the writing at hand, but the long-term goal for every session is to help each tutee become a better writer overall. Writing Center tutors do not correct students' papers but help writers recognize and correct their unique patterns of error. Additionally, tutors do not assess or grade writing; instead, the Center helps writers develop insight into each rhetorical situation. Ultimately, the Center's goal is to create better writers by blending service and collaboration — a blend that at its core is wholly Christian. The Writing Center functions as a training ground for students who tutor there, assist in administration, or aid faculty with research projects related to writing centers.

Objectives

In order to help writers improve their writing, we aim to help them:

- Identify global concerns before sentence-level concerns
- Discover their strengths and weaknesses as writers
- Understand their assignments
- Increase their confidence in writing
- Develop the initiative to pursue future discourse about writing

For more information, the Writing Center website is cedarville.edu/writingcenter.



Cocurricular Opportunities

Alpha Sigma Lambda (ASL)

Encourages the use of American sign language. Members meet regularly to learn and practice ASL and to learn about deaf culture. The club participates in silent dinners, occasionally signs in chapel, and attends deaf worship services.

Arabic Club

Provides opportunities to practice language skills and learn about cultures through extracurricular activities.

Chinese Club

Provides opportunities to practice language skills and learn about cultures through extracurricular activities.

French Club

Provides opportunities to practice language skills and learn about cultures through extracurricular activities.

German Club

Encourages the use of the German language and the understanding of germanic culture. Members meet regularly to practice the language, to discuss German culture and to discuss current events involving German-speaking countries. The club also takes trips each semester that include good German food.

Korean Club

Provides opportunities to practice languages skills and learn about cultures through extracurricular activities.

Linguistics Club

Students meet regularly for activities that enhance the practical usage of linguistics. Students who have participated in linguistics-related internships share their experiences. The club also hosts a site where members discuss linguistics issues and share linguistic jokes, articles and interesting information about languages.

Miracle

Students with writing, photography, editorial, and layout and design talent have the opportunity to compile and edit the University's yearbook.

Spanish Club

Provides opportunities to practice language skills and learn about cultures through extracurricular activities.

The Cedarville Review

Students submit and publish fiction, photography, creative nonfiction, and poetry, as well as select, prepare, and format manuscripts for publication in this annual literary journal.

Alpha Kappa Delta Cedarville chapter of Sigma Tau Delta

The International English Honor Society seeks to confer distinction for high achievement in English, language, and literature studies, promote interest in literature and the English language, and foster the discipline of English in all its aspects, including creative and critical writing.

Study Abroad Opportunities

Students are encouraged to take advantage of semester or academic year programs at one of Cedarville's partner/satellite programs or participate in one of Cedarville's special summer programs. Participants remain enrolled at Cedarville, continue to receive financial aid, and take classes for Cedarville credit. Semester and yearlong programs are primarily open for sophomores to seniors. The Cedarville summer study programs are open to all students. Advanced planning is highly recommended. For additional information, contact Study Abroad at cedarville.edu/StudyAbroad. Preapproval from Study Abroad must be received before students can participate in any program. Two of the most popular programs for English, Literature, and Modern Languages majors/minors are Cedarville University in Spain and our partner program in Oxford. Cedarville University in Spain cedarville.edu/SpainSemester.

In cooperation with the Institute for Spanish Studies (ISS), Cedarville students have the opportunity to study in a customized Spanish language and culture immersion program during either the fall or spring semesters or one or two summer sessions in Valencia, Spain.

Cedarville Summer Abroad Programs

Study Abroad is continually working with professors who desire to teach a specialized course abroad. Each summer there are opportunities for students to take general education and upper-level courses abroad with Cedarville professors. These courses are ideal for students whose majors do not have the flexibility of a semester abroad. Locations vary each summer, but usually are in Europe and Asia.

Technical Resources

Students have industry-standard software available to strengthen their professional skills, including:

- Language tutorials
- Reading and writing skill builders
- Publication design

Career Opportunities

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

- Bible translation
- Creative writing
- International business
- Journalism
- Law
- Missions
- Publishing
- Teaching



Faculty

- Stephen Schuler**, Chair; Professor of English. *Education:* BA, Grace College, 2002; PhD, Baylor University, 2008. At Cedarville since 2023.
- Holly Blakely**, Assistant Professor of English, Writing Center Director. *Education:* BA, Wright State University, 1999; MA, Wright State University, 2001. At Cedarville since 2018.
- Daniel Clark**, Professor of English. *Education:* BA, Tennessee Temple University, 1988; MA, University of Tennessee at Chattanooga, 1993. At Cedarville since 1999.
- Bryana Fern**, Assistant Professor of English. *Education:* BA, University of South Florida, 2014; MA, University of Southern Mississippi, 2016; PhD, University of Southern Mississippi, 2020. At Cedarville since 2021.
- Ginger Gilhooly**, Assistant Professor of English, Writing Center Assistant Director. *Education:* BA, Texas A&M University, 2008; MA, Bowling Green State University, 2020. At Cedarville since 2020.
- Scott Hodgin**, Assistant Professor of English. *Education:* BA, Wingate College, 1992; MA, Middle Tennessee State University, 1996. At Cedarville since 2023.
- Alicia McCartney**, Assistant Professor of English. *Education:* BA, Patrick Henry College, 2014; PhD, Baylor University, 2019. At Cedarville since 2020.
- Cynthia Messer**, Associate Professor of English, Yearbook Advisor. *Education:* BA, Cedarville University, 1994; MA, Wright State University, 1998. At Cedarville since 1998.
- Merideth Pitts**, Assistant Professor of Linguistics. *Education:* B.A., Bob Jones University, 2002; MA, Bob Jones University, 2004; MA, Georgia State University, 2012; PhD, Georgia State University, 2016. At Cedarville since 2017.
- Annis Shaver**, Professor of German and Applied Linguistics. *Education:* BA, BS, Tennessee Technological University, 1978; MA, Louisiana University, 1980; PhD, University of Miami, 2004. At Cedarville since 2005.
- Cristi Vallejos**, Assistant Professor of Spanish. *Education:* BA, Illinois State University, 2013; MS, Georgetown University, 2015; PhD, Georgetown University, 2020. At Cedarville since 2019.
- Robert Waller**, Assistant Professor of French and Linguistics. *Education:* BA, University of Central Florida, 1992; MDiv, Southeastern Baptist Theological Seminary, 1997; PhD, Southeastern Baptist Theological Seminary, 2023. At Cedarville since 2023.
- Andrew S. Wiseman**, Professor of Spanish; Assistant Director of CU Study Abroad. *Education:* BA, University of Massachusetts at Amherst, 1992; Undergraduate Studies, Universidad de Sevilla, Spain, 1990–1991; Undergraduate Studies, Universidad Internacional SEK, Santiago, Chile, 1992–1993; MA, Florida State University, 1995; PhD, Universidad de San Jose, San Jose, Costa Rica, 2002. At Cedarville since 2000.
- Michelle Wood**, Professor of English. *Education:* BA, Cedarville University, 1992; MA, Wright State University, 1997; PhD, Indiana University of Pennsylvania, 2013. At Cedarville since 1995.

Emeriti

- Pat Landers Dixon**, Associate Professor Emerita of English. *Education:* BA, Tennessee Temple University, 1963; MEd, University of Tennessee, 1970; TESL, Wright State University, 1985. At Cedarville since 1971.
- Barbara Loach**, Senior Professor Emerita of Spanish. *Education:* BA, Cedarville University, 1977; MA, Bowling Green University, 1978; MA, Wright State University, 1995; PhD, The Ohio State University, 1990. At Cedarville since 1978.



A complete description of the general education requirements is found on page 26.

English

Course requirements for the English major involve 52–55 semester hours including:

| | |
|--|-----------|
| English Core | 37 |
| CWRT-2220 Introduction to Creative Writing | 3 |
| ENG-2020 Career Development for the English Major | 2 |
| ENG-2230 Advanced Composition | 3 |
| ENG-3180 Visual Rhetoric | 2 |
| LIT-1990 First-Year Seminar | 3 |
| LIT-2090 Literary Analysis | 3 |
| LIT-2390 Survey of American Literature to 1900 | 3 |
| LIT-2430 Survey of British Literature to 1800 | 3 |
| LIT-2440 Survey of British Literature from 1800 to Present | 3 |
| LIT-3350 Shakespeare | 3 |
| LIT-3440 Multiethnic American Literature | 3 |
| (or LIT-3100 Contemporary Young Adult Literature | 3) |
| *LIT-4220 English Seminar | 3 |
| LIT-4310 Literary Theory | 3 |

Concentration from one of the following:

| | |
|---|-----------|
| Creative Writing..... | 15 |
| CWRT-3040 Poetry | 3 |
| CWRT-3050 Creative Nonfiction | 3 |
| CWRT-3000 or 4000-level Electives beyond core | 9 |
| Cross-disciplinary Studies | 15 |
| Approved 3000 or 4000-level courses from one other discipline (all prerequisites must be completed).... | 15 |
| Literary Studies..... | 15 |
| LIT-3090 Literary Research and Recovery | 3 |
| LIT-3400 Contemporary Studies in World Literature | 3 |
| LIT/FILM-3000 or 4000-level Electives beyond core | 9 |
| Rhetoric and Composition..... | 15 |
| ENG-3060 The English Language | 3 |
| ENG-3070 English Grammar | 3 |
| ENG/FILM-3000 or 4000-level Electives beyond core | 9 |
| Pathway to MBA..... | 18 |
| ACCT-2110 Principles of Accounting I | 3 |
| ACCT-2120 Principles of Accounting II | 3 |
| **BUS-2150 Statistics for Business | 3 |
| (or PYCH-2610 Statistics | 3) |
| ECON-2110 Essentials of Economics | 3 |
| MGMT-6710 Management and Leadership of Organizations | 3 |
| MBA Core or elective | 3 |

*Capstone Course

**GMTH-1020 College Algebra is a prerequisite for BUS-2150.

English Major Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0–4 |
| Other General Education Requirements | 48–56 |
| English Major Requirements | 52–55 |
| Electives | 17–28 |
| Total (minimum, not including proficiency) | 128 |

Suggested Four-Year Curriculum for a Major in English

First Year:

| | |
|---|-------------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech | 3 |
| ENG-1400 Composition | 3 |
| GBIO-1000 Principles of Biology | 3.5 |
| GSS-1100 Politics and American Culture | 3 |
| HUM-1400 Introduction to the Humanities | 3 |
| LIT-1990 First-Year Seminar | 3 |
| PEF-1990 Physical Activity and Healthy Living | 2 |
| History Elective | 3 |
| Quantitative Elective | 3 |
| Social Science/Global Awareness Elective | 3 |
| Total | 32.5 |

Second Year:

| | |
|--|-------------|
| BTGE-2730 Old Testament Literature | 3 |
| BTGE-2740 New Testament Literature | 3 |
| CWRT-2220 Introduction to Creative Writing | 3 |
| ENG-2020 Career Development for the English Major | 2 |
| ENG-2230 Advanced Composition | 3 |
| LIT-2090 Literary Analysis | 3 |
| LIT-2390 Survey of American Literature to 1900 | 3 |
| LIT-2430 Survey of British Literature to 1800 | 3 |
| LIT-2440 Survey of British Literature from 1800 to Present | 3 |
| Physical Science Elective | 3.5 |
| Concentration Requirements | 3 |
| Total | 32.5 |

Third Year:

| | |
|--|-----------|
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| ENG-3180 Visual Rhetoric | 2 |
| LIT-3350 Shakespeare | 3 |
| LIT-3440 Multiethnic American Literature | 3 |
| (or LIT-3100 Contemporary Young Adult Literature | 3) |
| LIT-4310 Literary Theory | 3 |
| Humanities Elective | 3 |
| Electives | 12 |
| Total | 32 |

Fourth Year:

| | |
|----------------------------------|-----------|
| LIT-4220 English Seminar | 3 |
| Concentration Requirements | 12–15 |
| Electives | 16 |
| Total | 31 |



Suggested Three-Year Curriculum for a Major in English

| | |
|--|-------------|
| Fall Year 1: | |
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| History Elective..... | 3 |
| Electives | 3 |
| Total | 15 |
| Spring Year 1: | |
| BTGE-2730 Old Testament Literature..... | 3 |
| ENG-2230 Advanced Composition..... | 3 |
| LIT-1990 First-Year Seminar | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Electives | 6 |
| Total | 17 |
| Summer Year 1: | |
| BTGE-2740 New Testament Literature | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| Physical Science Elective | 3.5 |
| Quantitative Elective | 3 |
| Total | 15.5 |
| Fall Year 2: | |
| LIT-2090 Literary Analysis..... | 3 |
| LIT-2390 Survey of American Literature to 1900..... | 3 |
| LIT-2430 Survey of British Literature to 1800..... | 3 |
| Concentration Requirements | 6 |
| Electives | 2 |
| Total | 17 |
| Spring Year 2: | |
| BTGE-3755 Theology I | 3 |
| LIT-2440 Survey of British Literature from 1800 to Present | 3 |
| CWRT-2220 Introduction to Creative Writing | 3 |
| ENG-2020 Career Development for the English Major | 2 |
| Electives | 6 |
| Total | 17 |
| Summer Year 2: | |
| BTGE-3765 Theology II | 3 |
| Humanities Elective | 3 |
| Biology Elective | 3.5 |
| Social Sciences/Global Awareness Elective | 3 |
| Total | 12.5 |
| Fall Year 3: | |
| ENG-3180 Visual Rhetoric..... | 2 |
| LIT-3350 Shakespeare | 3 |
| LIT-3440 Multiethnic American Literature | 3 |
| (or LIT-3100 Contemporary Young Adult Literature | 3) |
| Concentration Requirements | 6 |
| Electives | 3 |
| Total | 17 |
| Spring Year 3: | |
| LIT-4220 English Seminar | 3 |
| LIT-4310 Literary Theory..... | 3 |
| Concentration Requirements | 3–6 |
| Electives | 8 |
| Total | 17 |

Graduate Program Pathway Option for Teacher Education Licensure Program Language Arts Education — Integrated

The Bachelor of Arts in English program offers accelerated pathways to the Master of Business Administration degree and the Advanced Master of Divinity degree. You may view a sample curriculum plan at cedarville.edu/gradpathways.

Teacher Education Licensure Program Language Arts Education — Integrated

The integrated language arts major prepares students to teach language arts in public and Christian schools in grades seven–12. Students who complete this curriculum will be licensed by the state of Ohio and the Association of Christian Schools International. For additional information about teaching in other states, see the School of Education and Social Work section of this catalog.

Course requirements involve 58 hours in integrated language arts and 38 hours in professional education requirements.

Language Arts Professional Content 52

| | |
|--|---|
| CWRT-2220 Introduction to Creative Writing | 3 |
| ENG-2070 Fundamentals of English Grammar | 3 |
| ENG-2230 Advanced Composition | 3 |
| ENG-3060 The English Language | 3 |
| ENG-3070 English Grammar | 3 |
| ENG-3180 Visual Rhetoric | 2 |
| ENG-3200 Practicum in Writing Instruction | 2 |
| LIT-1990 First-Year Seminar | 3 |
| LIT-2090 Literary Analysis | 3 |
| LIT-2390 Survey of American Literature to 1900 | 3 |
| LIT-2430 Survey of British Literature to 1800 | 3 |
| LIT-2440 Survey of British Literature from 1800 to Present | 3 |
| LIT-3100 Contemporary Young Adult Literature | 3 |
| LIT-3350 Shakespeare | 3 |
| LIT-3400 Contemporary Studies in World Literature | 3 |
| LIT-3440 Multiethnic American Literature | 3 |
| 3XXX or 4XXX LIT, ENG, CWRT, or LING Electives | 6 |

Teacher Education 44

Teacher Education Program Pre-requisites 14

| | |
|--|---|
| EDSP-2100 Exceptionalities and Behavior | 2 |
| EDUC-1000 The Education Profession | 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 |

Professional Program Requirements 30

| | |
|---|----|
| EDSE-3000 Principles of Teaching AYA Learners | 4 |
| EDSE-4450 Adolescent/Young Adult Field Experience | 2 |
| EDSP-4250 Communication, Collaboration and Inclusion .. | 2 |
| EDUC-3100 Philosophical Foundations of Education | 3 |
| EDUC-3200 Faith and Learning Alignment (4–12) | 1 |
| EDUC-4000 Reading and Writing in the Disciplines: AYA and Multi-Age | 3 |
| LIT-4100 Studies in Integrated Language Arts | 3 |
| Capstone: | |
| EDSE-4900 Student Teaching and Seminar: AYA | 12 |

Integrated Language Arts Major Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0–4 |
| Other General Education Requirements | 45–53 |
| Language Arts Integrated Professional Content | 52 |
| Teacher Education Professional Requirements | 44 |
| Total (minimum, not including proficiency) | 141 |



A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Language Arts Education — Integrated

First Year:

| | |
|--|-------------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| EDUC-1000 The Education Profession..... | 2 |
| ENG-1400 Composition..... | 3 |
| ENG-2070 Fundamentals of English Grammar | 3 |
| GBIO-1000 Principles of Biology | 3.5 |
| GMTH-1010 Introduction to Mathematics | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| LIT-1990 First-Year Seminar | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Social Science Elective/Global Awareness..... | 3 |
| Total | 34.5 |

Second Year:

| | |
|---|-----------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 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 Education Psychology | 3 |
| ENG-3070 English Grammar..... | 3 |
| ENG-3180 Visual Rhetoric..... | 2 |
| LIT-2090 Literary Analysis..... | 3 |
| LIT-2390 Survey of American Literature to 1900..... | 3 |
| LIT-2430 Survey of British Literature to 1800..... | 3 |
| LIT-3400 Contemporary Studies in World Literature | 3 |
| Total | 35 |

Third Year:

| | |
|--|-----------|
| BTGE-3755 Theology I | 3 |
| CWRT-2220 Introduction to Creative Writing | 3 |
| EDSE-3000 Principles of Teaching AYA Learners | 4 |
| EDUC-3200 Faith and Learning Alignment (4–12) | 1 |
| ENG-2230 Advanced Composition | 3 |
| ENG-3060 The English Language | 3 |
| LIT-2440 Survey of British Literature from 1800 to Present | 3 |
| LIT-3100 Contemporary Young Adult Literature | 3 |
| LIT-3350 Shakespeare | 3 |
| LIT-3440 Multiethnic American Literature | 3 |
| LIT-4100 Studies in Integrated Language Arts | 3 |
| History Elective | 3 |
| Total | 35 |

Fourth Year:

| | |
|--|-------------|
| BTGE-3765 Theology II | 3 |
| EDSE-4450 Adolescent/Young Adult Field Experience | 2 |
| EDSE-4900 Student Teaching and Seminar: AYA | 12 |
| EDSP-4250 Communication, Collaboration, and Inclusion..... | 2 |
| EDUC-3100 Philosophical Foundations of Education | 3 |
| EDUC-4000 Reading and Writing in Disciplines: AYA and Multi-Age | 3 |
| ENG-3200 Practicum in Writing Instruction | 2 |
| 3XXX or 4XXX CWRT, ENG, LIT, or LING Electives | 6 |
| Physical Science Elective | 3.5 |
| Total | 36.5 |



Linguistics

The major in **linguistics** combines study of a core of courses in the field of linguistics, four semesters of modern language, and courses in concentration areas preparatory for careers and/or graduate study in fields related to linguistics.

Course requirements involve 42 semester hours including:

| | |
|--|-----------|
| Linguistics requirements | 28 |
| ENG-3060 The English Language..... | 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 | 3 |
| LING-3100 Principles of Language Acquisition..... | 3 |
| LING-4210 Senior Research in Linguistics I | 2 |
| LING-4220 Senior Research in Linguistics II..... | 1 |
| PYCH-1010 Writing in APA | 1 |
| *Concentration requirements | 14 |

* Students select one concentration according to interests (minimum of 14 credit hours). Students need to complete any prerequisites listed for the courses included in this list but that are not listed for the linguistics major. Also, a minimum of 21 credit hours for the major must be from 3000/4000-level courses.

Biblical Languages and Philosophy (minimum of 14 credit hours selected from the following courses)

| | |
|--|---|
| BTBL-2510 Elementary Greek I..... | 4 |
| BTBL-2520 Elementary Greek II..... | 4 |
| BTBL-3510 Intermediate Greek I | 3 |
| BTBL-3520 Intermediate Greek II | 3 |
| BTPA-2200 Introduction to Philosophy | 3 |
| BTPA-2240 Logic..... | 3 |
| BTPA-2260 World Religions..... | 3 |
| BTPA-3250 Philosophy of Religion | 3 |

Computer Science (minimum of 14 credit hours selected from the following courses)

| | |
|---|---|
| CS-1210 C++ Programming..... | 2 |
| CS-1220 Object-Oriented Design Using C++ | 3 |
| CS-2210 Data Structures Using Java | 3 |
| CS-3410 Algorithms..... | 3 |
| GMTH-1030 Precalculus (prerequisite for MATH-1710) | 3 |
| MATH-1710 Calculus I (prerequisite for MATH-2520) | 5 |
| MATH-2210 Logic and Methods of Proof (prerequisite for MATH-3560)..... | 3 |
| MATH-2520 Discrete Math and Probability Principles for Computer Science | 3 |
| MATH-3560 Discrete Math: Combinatorics..... | 3 |

Cultural Studies (minimum of 14 credit hours selected from the following courses)

| | |
|---|---|
| ANTH-1800 Cultural Anthropology | 3 |
| COM-2050 Communication Theory | 3 |
| COM-2140 Intercultural Communication..... | 3 |
| COM-2300 Voices of Diversity..... | 3 |
| COM-3150 Gender, Politics and Communication | 3 |
| HLMU-3400 Global Music | 3 |

Education and Psychology (minimum of 14 credit hours selected from the following courses)

| | |
|---|---|
| EDSP-2400 Language Development and Communication Disorders..... | 2 |
| EDUC-1000 The Education Profession..... | 2 |
| EDUC-2500 Educational Psychology | 3 |
| PYCH-1600 General Psychology | 3 |
| PYCH-1800 Cross-cultural Psychology | 3 |
| PYCH-2610 Statistics..... | 3 |
| PYCH-2650 Learning and Memory..... | 3 |
| PYCH-3760 Cognitive Neuroscience | 3 |

English and Writing (minimum of 14 credit hours selected from the following courses)

| | |
|--|---|
| CWRT-2220 Introduction to Creative Writing | 3 |
| ENG-2070 Fundamentals of English Grammar | 3 |
| ENG-2230 Advanced Composition | 3 |
| ENG-3010 Style and Mechanics for Writers..... | 3 |
| ENG-3070 English Grammar..... | 3 |
| ENG-3180 Visual Rhetoric..... | 2 |
| ENG-3550 Writing Center Theory and Training..... | 2 |

Global Engagement (minimum of 14 credit hours selected from the following courses)

| | |
|---|---|
| ANTH-1800 Cultural Anthropology | 3 |
| BTAT-3450 Contemporary World Missions..... | 3 |
| BTAT-3470 Cross-cultural Ministry | 3 |
| BTHT-4300 Global Theology | 3 |
| BTPA-2260 World Religions..... | 3 |
| One course selected from the following:..... | 3 |
| HIST-3200 History and Politics of Latin America | 3 |
| or HIST-3210 History and Politics of East Asia..... | 3 |
| or HIST-3220 History and Politics of the Middle East..... | 3 |
| or HIST-3230 History and Politics of Western Europe..... | 3 |
| INTL-2100 Global Issues | 3 |

Mathematics (minimum of 14 credit hours selected from the following courses)

| | |
|---|---|
| GMTH-1020 College Algebra..... | 3 |
| GMTH-1030 Precalculus..... | 3 |
| MATH-1710 Calculus I | 5 |
| MATH-1720 Calculus II | 5 |
| MATH-2520 Discrete Math and Probability Principles for Computer Science | 3 |
| MATH-2800 LaTeX for Technical Documents | 1 |
| MATH-3110 Probability and Statistics | 3 |

Modern Languages

8 credit hours of a second modern language at the elementary level other than the one taken for the linguistics core requirement.

6 credit hours of one modern language at the 3000/4000 level. May be the same language used to meet the linguistics core requirement.



A complete description of the general education requirements is found on page 26.

Pre-Speech Therapy (minimum of 14 credit hours selected from the following courses)

| | |
|---|-----|
| ANTH-1800 Cultural Anthropology | 3 |
| BIO-1115 Biology I: Cell Biology..... | 4 |
| CHEM-1000 Principles of Chemistry | 4 |
| (or CHEM-1110 General Chemistry.....) | 4) |
| EDSP-2400 Language Development and Communication Disorders..... | 2 |
| GBIO-2010 Human Anatomy and Physiology I | 4 |
| GBIO-2015 Human Anatomy and Physiology II | 4 |
| GSCI-1020 Principles of Physical Science | 3.5 |
| PHYS-1010 College Physics I | 4 |
| PYCH-1600 General Psychology..... | 3 |
| PYCH-1800 Crosscultural Psychology..... | 3 |
| PYCH-2600 Human Development: Lifespan..... | 3 |
| PYCH-2610 Statistics..... | 3 |
| PYCH-3760 Cognitive Neuroscience | 3 |
| SOC-1300 Introduction to Sociology | 3 |
| THTR-1230 Voice for the Performer | 3 |

TESOL

| | |
|--|---|
| COM-2140 Intercultural Communication..... | 3 |
| ENG-3070 English Grammar..... | 3 |
| LING-3500 Methods of Teaching Foreign Language | 3 |
| LING-3710 TESOL Practicum for Non-Education Majors | 2 |
| One of the following options: | |

- One semester (3 credit hours) of elementary level modern language other than required of the linguistics major.
- 3 additional hours of one modern language at the 3000/4000 level. May be the same language used to meet the modern language requirement.
- 3 credit hours selected from the following courses:
 - ENG-2070 Fundamentals of English Grammar.....3
 - ENG-2230 Advanced Composition.....3
 - ENG-3010 Style and Mechanics for Writers.....3
 - ENG-3550 Writing Center Theory and Training

Linguistics Major Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0-4 |
| Other General Education Requirements..... | 48 |
| Linguistics Major Requirements..... | 42 |
| Electives | 38 |
| Total (minimum, not including proficiency) | 128 |



Suggested Four-Year Curriculum for a Major in Linguistics

First Year:

| | |
|--|-------------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| FREN/GER/SPAN-2XXX Foreign Language Requirement..... | 7 |
| GBIO-1000 Principles of Biology | 3.5 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| LING-2070 Introduction to Linguistics | 2 |
| LIT-2XXX Literature Elective | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Quantitative Elective | 3 |
| Total | 32.5 |

Second Year:

| | |
|--|-------------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| LING-3080 Linguistics for Language Learning..... | 3 |
| LING-3090 Sociolinguistics | 3 |
| PYCH-1010 Writing in APA | 1 |
| Physical Science Elective | 3.5 |
| Concentration Electives | 9 |
| Electives | 5 |
| Total | 30.5 |

Third Year:

| | |
|---|-----------|
| BTGE-3755 Theology I..... | 3 |
| ENG-3060 The English Language..... | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| LING-3082 Phonetics | 3 |
| LING-3100 Principles of Language Acquisition..... | 3 |
| Concentration Electives | 5 |
| History Elective | 3 |
| Social Science Elective | 3 |
| Electives | 7 |
| Total | 33 |

Fourth Year:

| | |
|---|-----------|
| BTGE-3765 Theology II | 3 |
| LING-4210 Senior Research in Linguistics I | 2 |
| LING-4220 Senior Research in Linguistics II | 1 |
| Electives | 26 |
| Total | 32 |

Graduate Program Pathway Option for Linguistics

The Bachelor of Arts in linguistics program offers an accelerated pathway to the Advanced Master of Divinity degree. You may view a sample curriculum plan at cedarville.edu/gradpathways.

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 | 3 |
| *SPAN-4640 Research in Language and Culture | 3 |

Two courses selected from the following..... 6

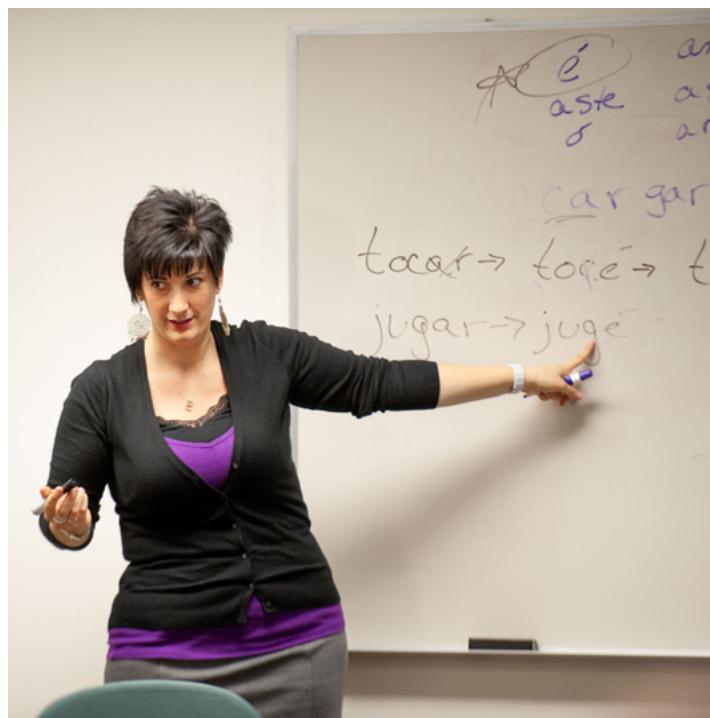
| | |
|--|---|
| SPAN-4650 Civilization and Literature of Latin America I | 3 |
| SPAN-4670 Civilization and Literature of Latin America II | 3 |
| SPAN-4740 Civilization and Literature of Spain I | 3 |
| SPAN-4750 Civilization and Literature of Spain II | 3 |

Electives in Spanish..... 6

*Capstone Course

Spanish Major Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0-4 |
| Other General Education Requirements..... | 48 |
| Spanish Major Requirements | 34 |
| Electives | 46 |
| Total (minimum, not including proficiency) | 128 |



A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Spanish

First Year:

| | |
|--|-------------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| GBIO-1000 Principles of Biology | 3.5 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| SPAN-1710 Elementary Spanish I*..... | 4 |
| SPAN-1720 Elementary Spanish II* | 4 |
| History Elective..... | 3 |
| Elective | 3 |
| Total | 31.5 |

Second Year:

| | |
|---|-------------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| SPAN-2710 Intermediate Spanish I | 4 |
| SPAN-2720 Intermediate Spanish II | 3 |
| LIT-2XXX Literature Elective..... | 3 |
| Physical Science Elective | 3.5 |
| Quantitative Elective | 3 |
| Electives | 6 |
| Total | 31.5 |

Third Year:

| | |
|---|-----------|
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| SPAN-3610 Spanish Composition | 3 |
| SPAN-3620 Spanish Conversation | 3 |
| SPAN-3640 Introduction to Hispanic Literature | 3 |
| Social Science Elective | 3 |
| Electives | 16 |
| Total | 34 |

Fourth Year:

| | |
|---|-----------|
| SPAN-4610 Advanced Spanish Grammar | 3 |
| SPAN-4640 Research in Language and Culture | 3 |
| Spanish Civilization and Literature Electives | 6 |
| Spanish Electives | 6 |
| Electives | 13 |
| Total | 31 |

* Elementary Spanish does not count toward the major.





A complete description of the general education requirements is found on page 26

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 and Social Work section in this catalog.

Course requirements involve 36 credit hours in Spanish and 44 credit hours in professional education requirements including:

Spanish Education Multi-Age Professional Content

Spanish Education major core courses: 22

| | |
|--|---|
| LING-3100 Principles of Language Acquisition..... | 3 |
| 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 | 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 |

Additional Spanish Electives selected from the following 8

| | |
|--|-----|
| SPAN-2760 Spanish for Professionals | 3 |
| SPAN-3670 Introduction to Translation..... | 2 |
| SPAN-3680 History of Hispanics in the U.S. | 3 |
| SPAN-3690 Hispanic Film | 3 |
| SPAN-4640 Research in Language and Culture | 3 |
| *SPAN-4650 Civilization and Literature of Latin America I | 3 |
| *SPAN-4670 Civilization and Literature of Latin America II | 3 |
| SPAN-4680 Advanced Conversation and Composition | 2 |
| SPAN-4700 Independent Study in Spanish | 1–3 |
| *SPAN-4740 Civilization and Literature of Spain I | 3 |
| *SPAN-4750 Civilization and Literature of Spain II..... | 3 |
| SPAN-4790 Twentieth Century Spanish Theater..... | 3 |

*Additional Civilization and Literature Electives not taken above

Teacher Education 44

Teacher Education Program Pre-requisites 14

| | |
|--|---|
| EDSP-2100 Exceptionalities and Behavior | 2 |
| EDUC-1000 The Education Profession | 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 |

Professional Program Requirements 30

| | |
|---|----|
| EDSE-3000 Principles of Teaching AYA Learners..... | 4 |
| EDSE-4450 Adolescent/Young Adult Field Experience | 2 |
| EDSP-4250 Communication, Collaboration, and Inclusion | 2 |
| EDUC-3100 Philosophical Foundations of Education..... | 3 |
| EDUC-3200 Faith and Learning Alignment (4–12)..... | 1 |
| EDUC-4000 Reading and Writing in the Disciplines: AYA and Multi-Age | 3 |
| EDUC-4900 Student Teaching and Seminar — Multi-Age | 12 |
| GSS-1100 Politics and American Culture..... | 3 |
| SPAN-3500 Methods of Teaching Foreign Language | 3 |
| SPAN-4610 Advanced Spanish Grammar | 3 |

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

First Year:

| | |
|--|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| EDUC-1000 The Education Profession..... | 2 |
| EDUC-2050 Teaching Diverse Learners..... | 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 Healthy Living..... | 2 |
| SPAN-2710 Intermediate Spanish I | 4 |
| SPAN-2720 Intermediate Spanish II | 3 |
| Total | 32 |

Second Year:

| | |
|---|-----------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| EDSP-2100 Exceptionalities and Behavior | 2 |
| EDUC-2100 e-Learning for Educators..... | 3 |
| EDUC-2300 Assessment and Differentiation | 2 |
| EDUC-2500 Educational Psychology | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| History Elective..... | 3 |
| LIT-XXXX Literature Elective | 3 |
| SPAN-3610 Spanish Composition | 3 |
| SPAN-3620 Spanish Conversation | 3 |
| SPAN-3640 Introduction to Hispanic Literature | 3 |
| Total | 34 |

Third Year:

| | |
|--|-----------|
| BTGE-3755 Theology I | 3 |
| EDSE-3000 Principles of Teaching AYA Learners | 4 |
| EDUC-3100 Philosophical Foundations of Education | 3 |
| LING-3100 Principles of Language Acquisition..... | 3 |
| SPAN-XXXX Civilization and Literature Elective | 6 |
| Social Science Elective | 3 |
| Spanish Electives | 8 |
| Total | 30 |

Fourth Year:

| | |
|---|-----------|
| BTGE-3765 Theology II | 3 |
| EDSE-4450 Adolescent/Young Adult Field Experience | 2 |
| EDSP-4250 Communication, Collaboration, and Inclusion | 2 |
| EDUC-3200 Faith and Learning Alignment (4–12) | 1 |
| EDUC-4000 Reading and Writing in the Disciplines: AYA and Multi-Age | 3 |
| EDUC-4900 Student Teaching and Seminar — Multi-Age | 12 |
| GSS-1100 Politics and American Culture..... | 3 |
| SPAN-3500 Methods of Teaching Foreign Language | 3 |
| SPAN-4610 Advanced Spanish Grammar | 3 |
| Total | 32 |

Testing requirements: MASPN majors will score Advanced-Low on the ACTFL Oral Proficiency Interview and Writing Proficiency Test licensure exams.

Spanish Education Multi-Age Major Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0–5 |
| General Education Requirements..... | 48 |
| Spanish Education Multi-Age Professional Content..... | 36 |
| Teacher Education Professional Requirements | 44 |
| Total (minimum, not including proficiency) | 128 |

Minors

Asian Studies Minor

The **Asian studies minor** provides students with language skills and cultural background knowledge focused on developing a greater understanding of events, ideas, and beliefs from that region of the world. Course requirements for the Asian studies minor involve 20 credit hours including:

CHN-1100, 1200 Elementary Chinese I and II 8

HIST-3210 History and Politics of East 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

PYCH-1800 Cross-Cultural Psychology 3

British Studies Minor

The **British studies minor** provides students with cultural background knowledge, including historical language knowledge, focused on developing a greater understanding of events, ideas, and beliefs from regions historically ruled by Great Britain. Course requirements for the British studies minor requires 18 credit hours including:

INTL-3040 History and Politics of the British Isles and Canada 3

ENG-3060 The English Language 3

LIT-3380 Contemporary British Literature 3

One Elective selected from the following 3

LIT-2430 British Literature to 1800 3

LIT-2440 British Literature from 1800 3

LIT-3310 English Novel 3

LIT-3350 Shakespeare 3

LIT-4450 Milton: Poetry and Selected Prose 3

Two Electives selected from the following 6

POLS-4500 Seminar (Churchill) 3

POLS-4500 Seminar (Other British/Commonwealth Seminar Course) 3

INTL-4980 Independent Study in International Studies (including study abroad opportunities at Oxford) 3

Creative Writing Minor

The **creative writing minor** is designed to enhance the student's abilities in various modes of writing. Course requirements involve 21 credit hours including:

CWRT-2220 Introduction to Creative Writing 3

CWRT-3030 Fiction 3

CWRT-3040 Poetry 3

CWRT-3050 Creative Nonfiction 3

CWRT-4220 Creative Writing Capstone I 3

CWRT-4221 Creative Writing Capstone II 3

Electives (choose one from the following) 3

ART-1110 Drawing Foundations 3

ART-2250 Creative Photography 3

LIT-3100 Contemporary Young Adult Literature 3

LIT-3520 C.S. Lewis and the Inklings 3

LIT-3530 Graphic Novel 3

*THMU-1210 Music Theory 3

THMU-1410 Introduction to Theater 3

THTR-2430 Acting I 3

*This course has a Prerequisite

Editing and Publishing Minor

The **editing and publishing minor** is designed to prepare students for careers in the publishing field. Course requirements involve 21 credit hours including:

CWRT-2220 Introduction to Creative Writing 3

ENG-3070 English Grammar 3

PWID-3010 Style and Mechanics for Writers 3

PWID-3210 Professional Editing 3

PWID-3320 Editing in Publishing Contexts 3

PWID-4150 Writing for Publications 3

VCD-1050 Applies Design: Tech Tools I 3

French Minor

The **French minor** is designed to enhance the student's understanding and skill in foreign language. Course requirements involve 17 credit hours including:

FREN-1920 Elementary French II 4

FREN-2910 Intermediate French I 4

FREN-2920 Intermediate French II 3

Selected from the following: 6

FREN-3910 French Conversation 3

FREN-3920 Contemporary French Culture 3

FREN-3930 Survey of French Literature 3

FREN-3940 Special Topics in French 1-3

German Minor

The **German minor** is designed to enhance the student's understanding and skill in foreign language. Course requirements involve 17 credit hours including:

GER-1820 Elementary German II 4

GER-2810 Intermediate German I 4

GER-2820 Intermediate German II 3

GER-3830 Survey of German Literature 3

3000-level German Electives 3



Latin American Studies Minor

The **Latin American studies minor** provides students with language skills and cultural background knowledge focused on developing a greater understanding of events, ideas, and beliefs from that region of the world. Course requirements for the Latin American studies minor involve 22 credit hours including:

| | |
|--|----------|
| ANTH-1800 Cultural Anthropology | 3 |
| INTL-3200 History and Politics of Latin America | 3 |
| SPAN-2710 Intermediate Spanish I | 4 |
| SPAN-2720 Intermediate Spanish II | 3 |
| SPAN-3XXX or 4XXX Electives | 3 |
| Electives selected from the following..... | 6 |
| BTAT-3450 Contemporary World Mission | 3 |
| BTAT-3470 Cross-Cultural Ministry..... | 3 |
| BTPA-2260 World Religions | 3 |
| BUS-3910 International Business | 3 |
| COM-2140 Intercultural Communication | 3 |
| GEO-3510 World Geography — West..... | 3 |
| SPAN-3620 Spanish Conversation | 3 |
| SPAN-3640 Introduction to Hispanic Literature | 3 |
| SPAN-4670 Civilization and Literature of Latin America II | 3 |
| SPAN-3XXX or 4XXX electives not taken in core | 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 | 3 |
| LING-3090 Sociolinguistics | 3 |
| LING-3100 Principles of Language Acquisition..... | 3 |
| Electives selected from the linguistics major concentrations..... | 6 |

Literature Minor

The **literature minor** is designed to enhance the student's knowledge and appreciation of literature and the English language. Course requirements involve 15 credit hours including:

| | |
|--|---|
| LIT-2340 Western Literature..... | 3 |
| American Literature: One course | 3 |
| British Literature: One course | 3 |
| Literature Electives: 3000- 4000 level | 6 |



Middle Eastern Studies Minor

The **Middle Eastern studies minor** provides students with language skills and cultural background knowledge focused on developing a greater understanding of events, ideas, and beliefs from that region of the world. Course requirements involve 22 credit hours including:

| | |
|--|-------------|
| One year of Elementary Middle Eastern language..... | 6–8 |
| (or ARBC-1400 Introduction to Arabic Language and Culture..... | 3 |
| *and one semester of HEB-1XXX Hebrew | 3–4) |
| (or ARBC-1410, 1420 Elementary Arabic I and II | 8) |
| ANTH-1800 Cultural Anthropology | 3 |
| 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-3200 Introduction to Missions: Theology and History... 3 | 3 |
| BTAT-3450 Contemporary World Mission..... | 3 |
| BTAT-3470 Cross-Cultural Ministry..... | 3 |
| BTPA-2260 World Religions | 3 |
| COM-2140 Intercultural Communication | 3 |
| GEO-3520 World Regional Geography: Eastern..... | 3 |
| LIT-2330 World Mythology..... | 3 |
| PYCH-1800 Cross-Cultural Psychology | 3 |

*Hebrew is through online or study abroad programs.

Spanish Minor

The **Spanish minor** is designed to enhance the student's understanding and skill in foreign language. Course requirements for the Spanish minor involve 17 hours including:

| | |
|---|----|
| SPAN-1720 Elementary Spanish II | 4 |
| SPAN-2710 Intermediate Spanish I | 4 |
| SPAN-2720 Intermediate Spanish II | 3 |
| SPAN-3610 Spanish Composition | 3 |
| (or SPAN-3620 Spanish Conversation | 3) |
| Spanish Elective: 3000- or 4000-level | 3 |

Spanish for Healthcare Personnel Minor

The **Spanish for healthcare personnel minor** is designed for careers in pharmacy, nursing, allied health and pre-med by focusing on medical Spanish terminology and providing opportunities for clinical experience working with Spanish-speaking populations. Course requirements for the Spanish for healthcare personnel minor involve 19 credit hours including:

| | |
|--|---|
| SPAN-2710 Intermediate Spanish I | 4 |
| SPAN-2720 Intermediate Spanish II | 3 |
| SPAN-2760 Spanish for Professionals..... | 3 |
| SPAN-3620 Spanish Conversation | 3 |
| SPAN-3680 History of Hispanics in the U.S..... | 3 |
| SPAN-4760 Advanced Medical Spanish | 2 |
| SPAN-4770 Spanish Clinical Experience for Healthcare Personnel | 1 |

Spanish for Professionals Minor

The **Spanish for professionals minor** is designed for careers linked to public service (social work, criminal justice, healthcare, education, and other related fields). Course requirements for the Spanish for professionals minor involve 16 credit hours including:

| | |
|--|---|
| SPAN-2710 Intermediate Spanish I | 4 |
| SPAN-2720 Intermediate Spanish II | 3 |
| SPAN-2760 Spanish for Professionals..... | 3 |
| SPAN-3620 Spanish Conversation | 3 |
| SPAN-3680 History of Hispanics in the U.S..... | 3 |

Teaching English to Speakers of Other Languages (TESOL) Minor

The **TESOL minor** prepares students to teach English to speakers of other languages in multi-age classrooms without obtaining state teacher licensure. Students who complete the TESOL minor are eligible to receive an institution-endorsed certificate. To receive the certificate, a student must earn a 3.0 or higher for the courses of the minor. Non-native speakers of English must achieve a TOEFL score of 100 on the internet-based exam, or an IELTS score of 7, and a score of 55 or higher on the Test of Spoken English or have department approval to be admitted to the minor. Course requirements for the TESOL minor involve 17 hours including:

| | |
|--|---|
| ENG-3070 English Grammar..... | 3 |
| LING-3080 Linguistics for Language Learning | 3 |
| LING-3090 Sociolinguistics | 3 |
| LING-3100 Principles of Language Acquisition..... | 3 |
| LING-3500 Methods of Teaching Foreign Language..... | 3 |
| LING-3710 TESOL Practicum for Non-Education Majors | 2 |

TESOL Endorsement

The **TESOL endorsement** prepares teachers to teach English to Speakers of Other Languages in multi-age classrooms in the United States and overseas. Students interested in the TESOL endorsement must possess or be working toward the completion of degree and licensure requirements. Students who complete the TESOL endorsement program will automatically receive the minor and are eligible to receive an institution-endorsed certificate. To receive the certificate, a student must earn a 3.0 or higher for the courses of the minor. Non-native speakers of English must achieve a TOEFL score of 100 on the internet-based exam or an IELTS score of 7 and a score of 55 or higher on the Test of Spoken English or have department approval to qualify for admission. Course requirements for the TESOL endorsement involve 20 hours including:

| | |
|--|---|
| ENG-3060 The English Language..... | 3 |
| ENG-3070 English Grammar..... | 3 |
| LING-3080 Linguistics for Language Learning | 3 |
| LING-3090 Sociolinguistics | 3 |
| LING-3100 Principles of Language Acquisition..... | 3 |
| LING-3500 Methods of Teaching Foreign Language..... | 3 |
| LING-3610 TESOL Practicum for 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 Anthropology | 3 |
| FREN-2910, 2920 Intermediate French I and II | 7 |
| (or GER-2810, 2820 Intermediate German I and II..... | 7) |
| (or SPAN-2710, 2720 Intermediate Spanish I and II | 7) |
| FREN/GER/SPAN-3XXX or 4XXX Electives | 3 |
| INTL-3230 History and Politics of Western Europe..... | 3 |
| Electives selected from the following..... | 6 |

| | |
|--|-----|
| ART-4400 20th Century Art..... | 3 |
| BTAT-3450 Contemporary World Mission..... | 3 |
| BTAT-3470 Cross-Cultural Ministry..... | 3 |
| BUS-3910 International Business | 3 |
| COM-2140 Intercultural Communication | 3 |
| GEO-3510 World Geography — West..... | 3 |
| HIST-2020 History of Civilization Since 1500 | 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 |

Special Program

Certificate in Medical Spanish Program

Training in language and cultural skills essential for working with Spanish-speaking patients in a variety of health care settings. Program is designed primarily for students with prior knowledge of Spanish majoring in health care professional programs.

Course requirements for the Certificate in Medical Spanish involve 22 credit hours including:

| | |
|--|---|
| SPAN-2710 Intermediate Spanish I | 4 |
| SPAN-2720 Intermediate Spanish II | 3 |
| SPAN-2760 Spanish for Professionals..... | 3 |
| SPAN-3620 Spanish Conversation | 3 |
| SPAN-3680 History of Hispanics in the U.S..... | 3 |
| SPAN-4760 Advanced Medical Spanish | 2 |
| SPAN-4770 Spanish Clinical Experience for Healthcare Personnel | 1 |

| | |
|---|----------|
| Electives selected from the following..... | 3 |
|---|----------|

| | |
|---|---|
| BTAT-3470 Cross-Cultural Ministry..... | 3 |
| HIST-3200 History & Politics of Latin America | 3 |
| NSG-3170 Culture and Health | 3 |
| SPAN-3670 Intro to Translation | 2 |
| and SPAN-4700 Independent Study in Translation..... | 1 |
| SPAN-4610 Advanced Spanish Grammar..... | 3 |

Additional requirements for certification

Minimum of Advanced Low rating on the ACTFL Oral Proficiency Interview Exam; 2.5 GPA in program; positive recommendation from clinical field experience supervisor.





History and Government

Mission Statement

The goal of the Department of History and Government in the Cedarville University School of Arts and Humanities 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.

Programs of Study

The Department of History and Government offers the following programs of study:

Bachelor of Arts (BA) in:

- Criminal Justice
- History
- International Studies
- Political Science
- Prelaw
- Social Studies Education — Integrated

Bachelor of Science (BS) in:

- Forensic Science*

*In cooperation with the School of Science and Mathematics; see page 197.

Minors

- Church History
- Criminal Justice
- National Security
- History
- International Studies
- Political Science
- Public Administration
- Public Policy
- Sociology

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:

1. 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.

2. A presentation of selective senior research projects presented to invited faculty, students, and guests.
3. 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.

Cocurricular Opportunities

Each major has several professional organizations in which students may participate. Students can also broaden their understanding and knowledge through a variety of travel opportunities, internships, and student organizations.

Alpha Delta Nu

Alpha Delta Nu provides criminal justice students with the opportunity to enhance their professional development. Members are students who believe that a career in criminal justice is a ministry in a God-ordained institution, which is government. This organization promotes Christian character, leadership, and service through training, information, and networking to supplement academic studies. The society assists students to prepare for a transition to their professional field as practitioners.

Cedarville Legal Society

The Cedarville Legal Society organizes educational activities related to the application process for law school, preparing to take the LSAT, choosing a major or minor, and selecting a career in law. The organization plans activities such as visits to law schools, trips to court buildings, and events with legal professionals discussing the field of law and careers in that field. The Legal Society hosts forums on current legal issues, establishes relationships between students with common career goals, and promotes the profession of the law. The organization also sponsors the Cedarville Moot Court Team.

College Republicans

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

Epsilon Pi Lambda

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

Model United Nations Team

Model United Nations Team is a simulation of the United Nations system. Students assume the roles of ambassadors to the United Nations and negotiate current global issues. The Cedarville University Model UN Team participates in an intercollegiate competition in which participants seek to deal with complex global concerns such as the environment, economic 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 like-minded individuals.

Center for Political Studies

The Center for Political Studies at Cedarville University was founded to articulate a biblical view of government through the study of politics, law, history, and public policy; 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, *Dean*; Professor of Political Science; Director, Center for Political Studies. *Education*: BA, Bryan College, 1992; MA, Trinity International University, 1995; MA, University of Georgia, 1997; PhD, University of Georgia, 2001. At Cedarville since 2004.

Glen Duerr, *Chair*; Associate Professor of International Studies. *Education*: BA, University of Western Ontario, 2003; MA, University of Windsor, 2005; PhD, Kent State, 2012. At Cedarville since 2012.

Robert Clark, Assistant Professor of History. *Education*: BA, Calvary Bible College, 1986; MA, Dallas Theological Seminary, 1991; MA, Wichita State University, 2007; PhD, Kansas State University, 2017. At Cedarville since 2018.

Marc Clauson, Professor of History and Law. *Education*: BS, Marshall University, 1978; MA, Marshall University, 1979; JD, West Virginia University, 1982; MTh, Liberty University, 1993; MA, Liberty University, 1993; PhD, University of the Orange Free State, South Africa, 2001. At Cedarville since 2002.

Deborah Groen, Instructor of Political Science. *Education*: BA, Cedarville University, 2013; MA, University of South Carolina, 2016; MA, Georgetown University, 2019; PhD, Georgetown University, 2023. At Cedarville since 2023.

Kyung-hwa (Christine) Kim, Assistant Professor of International Studies. *Education*: BA, Korea National Open University, 1993; MA, Hankuk University of Foreign Studies, 1998; MA, Syracuse University, 2005; PhD, Syracuse University, 2017. At Cedarville since 2018.

Justin Lyons, Associate Professor of Political Science. *Education*: BA, University of Wisconsin-River Falls, 1994; MA, University of Toronto, 1995; MA, University of Dallas, 1999; PhD, University of Dallas, 2003. At Cedarville since 2018.

Thomas Mach, Vice President for Academics; Professor of History. *Education*: BA, Cedarville University, 1988; MA, Cleveland State University, 1989; PhD, University of Akron, 1996. At Cedarville since 2000.

Steven Meacham, Associate Professor of Criminal Justice. *Education*: BA, State University of New York at Albany, 1986; MA, State University of New York at Albany, 2005. At Cedarville since 2019.

Patrick Oliver, Associate Professor of Criminal Justice. *Education*: AA, University of Cincinnati, 1977; BA, Baldwin Wallace College, 1981; MBA, Baldwin Wallace College, 1991; PhD, 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.

David Rich, Professor of Public Administration and Political Science. *Education*: BA, Cedarville University, 1983; MPA, University of Dayton, 1988; DPA, Western Michigan University, 2006. At Cedarville since 2000.

Stanley Schwartz, Instructor of History. *Education*: BA, Cedarville University, 2018; PhD candidate, Temple University. At Cedarville since 2022.

Kevin Sims, Senior Professor of Political Science. *Education*: BA, Cedarville University, 1974; MA, University of Northern Iowa, 1978; PhD, The Claremont Graduate School, 1991. At Cedarville since 1990.

Gregory Thompson, Professor of Criminal Justice. *Education*: BS, University of Arizona, 1995; Master of Military Operational Art and Science, Air University, 2015, Air War College-Air University, 2016; JD, University of Arizona College of Law, 1999. At Cedarville since 2023.

Emeriti

Frank Jenista, Professor Emeritus of International Studies. *Education*: BA, Cedarville University, 1968; MA, University of Dayton, 1970; PhD, University of Michigan, 1978. At Cedarville since 2000.

Allen Monroe, Professor Emeritus of Social Science. *Education*: BA, Shelton College, 1957; graduate study, University of Florida, 1958; MA, Montclair State College, 1965; PhD, The Ohio State University, 1970; postdoctoral study, Westminster Theological Seminary, 1978. At Cedarville from 1965 to 2002.

Murray Murdoch, Distinguished Professor of History. *Education*: B.Th., Baptist Bible Seminary, 1960; MA, Northwestern University, 1962; History Faculty Fellow, Northwestern University, 1963; PhD, Northwestern University, 1971. At Cedarville since 1965.

Robert Parr, Professor Emeritus of Sociology. *Education*: BRE, Grand Rapids Baptist College, 1967; MRE, Grand Rapids Baptist Seminary, 1970; MA, Michigan State University, 1982; MSW, The Ohio State University, 1990; PhD, The Ohio State University, 1987. At Cedarville since 1980.



Criminal Justice

The **criminal justice major** prepares students for careers in the criminal justice system. Such careers include law enforcement and correctional activities at all levels of government that have the potential to progress to positions of leadership. The curriculum for the criminal justice major follows criteria proposed by the Academy of Criminal Justice Sciences.

Mission Statement

The mission of Cedarville University's Criminal Justice Program is to prepare students for graduate studies or entry-level positions in a variety of criminal justice fields and to prepare leaders who serve with integrity from a biblical worldview.

Program Objectives

Students will:

- Practice a biblical worldview for lifelong leadership and service in the criminal justice profession.
- Apply critical thinking skills within the context of the criminal justice profession.
- Demonstrate effective oral and written communication skills for use in the criminal justice profession.
- Conduct research effectively within the criminal justice profession.
- Be prepared to become entry-level practitioners in criminal justice or pursue graduate studies.
- Practice interacting effectively with persons of diverse populations.

Core Values

Students must be able to practice the following core values that are key to the criminal justice profession:

- Integrity — Demonstrates high moral character and ethical standards in all matters public and private.
- Service Orientation — Demonstrates lifelong leadership and service to all mankind.
- Human Relations Skills — Demonstrates the ability to effectively interact with other people.
- Team Compatibility — Demonstrates the ability to work with others in a cooperative, caring, and supportive manner to achieve goals of the group.
- Performance Driven — Demonstrates the ability to set and achieve performance goals and standards.



Course requirements involve 61 semester hours including:

| | |
|---|-----------|
| Criminal Justice requirements | 55 |
| CRJU-1310 Introduction to Criminal Justice | 3 |
| CRJU-2200 Criminology..... | 3 |
| CRJU-2310 Juvenile Delinquency | 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 for the Social Science Professional..... | 3 |
| CRJU-3990 Criminal Justice Internship..... | 3 |
| CRJU-4150 Homeland Security | 3 |
| CRJU-4200 Police Administration..... | 3 |
| CRJU-4630 American Constitutional Law: Civil Liberties and Rights..... | 3 |
| *CRJU-4900 Research Issues in Criminal Justice..... | 3 |
| GSS-1350 Career Options..... | 1 |
| GSS-3640 Qualitative Methodology and Reasoning | 3 |
| GSS-3650 Quantitative Methodology | 3 |
| HIST-2620 Church and State | 3 |
| INTL-2100 Global Issues | 3 |
| POLS-2620 American State and Local Government | 3 |
| Electives select two courses | 6 |
| BTAT-3510 Introduction to Urban Missiology | 3 |
| CRJU-2840 Concepts of Chemical Dependency | 3 |
| CRJU-3500 Foundations of Emergency Management | 3 |
| CRJU-4160 International and Domestic Terrorism | 3 |
| CRJU-4320 Criminal Investigation | 3 |
| POLS-3600 Public Administration | 3 |
| POLS-3760 Jurisprudence: Philosophy of Law | 3 |
| POLS-4640 American Constitutional Law: Government Powers and Federalism | 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 BA in criminal justice, students will be completely prepared to enter the job market in a variety of areas in law enforcement. ATIC offers training in the field of intelligence for use in both the national and the local arenas. In an effort to help fill the human capital pipeline with trained, cleared professionals, ATIC offers intelligence internships to college juniors, seniors, and graduate students. To achieve this, ATIC partners with colleges and universities to offer a semester of training and research experience to qualified candidates. In addition, through agreements with government customers, and due to the classified content that students may be exposed to during the course, students who participate in the program will be submitted for a U.S. security clearance. If the government grants the clearance, the students are even more marketable and better prepared to enter the Intelligence Community (IC), private industry, academia, and other government organizations.

Criminal Justice Major Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0–4 |
| Other General Education Requirements..... | 42–50 |
| Criminal Justice Major Requirements | 61 |
| General Electives | 17–25 |
| Total (minimum, not including proficiency) | 128 |

A complete description of the general education requirements is found on page 26

Suggested Four-Year Curriculum for a Major in Criminal Justice

First Year:

| | |
|--|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| CRJU-1310 Introduction to Criminal Justice | 3 |
| ENG-1400 Composition | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| GSS-1350 Career Options..... | 1 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| INTL-2100 Global Issues | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Biological Science Elective..... | 3.5 |
| Physical Science Elective | 3.5 |
| Total | 31 |

Second Year:

| | |
|--|-----------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| CRJU-2200 Criminology | 3 |
| CRJU-2310 Juvenile Delinquency | 3 |
| GSS-3640 Qualitative Methodology and Reasoning | 3 |
| GSS-3650 Quantitative Methodology | 3 |
| HIST-2620 Church and State | 3 |
| LIT-2XXX Literature Elective | 3 |
| POLS-2620 American State and Local Government | 3 |
| Humanities Elective | 3 |
| Electives | 3 |
| Total | 33 |

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 for the Social Science Professional | 3 |
| CRJU-3990 Criminal Justice Internship | 3 |
| Criminal Justice Electives | 6 |
| Electives | 3 |
| Total | 33 |

Fourth Year:

| | |
|--|-----------|
| CRJU-4150 Homeland Security | 3 |
| CRJU-4200 Police Administration..... | 3 |
| CRJU-4630 American Constitutional Law: Civil Liberties & Rights .. | 3 |
| CRJU-4900 Research Issues in Criminal Justice | 3 |
| Electives | 19 |
| Total | 31 |

Forensic Science

Interested students may consider a Bachelor of Science degree with a major in **forensic science**. This is an undergraduate interdisciplinary degree program with an emphasis on advanced (upper-level) coursework and substantial laboratory work in the sciences. Students completing this program will also earn a minor in criminal justice and participate in an internship in a state crime laboratory their junior and senior years. This program is provided in partnership with the School of Science and Mathematics. Program requirements can be found on page 197.



A complete description of the general education requirements is found on page 26

Suggested Four-Year Curriculum for a Major in History

First Year:

| | |
|--|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| GSS-1350 Career Options..... | 1 |
| HIST-1110 United States History to 1877 | 3 |
| HIST-1120 United States History Since 1877 | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| INTL-2100 Global Issues | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Electives | 5 |
| Total | 32 |

Second Year:

| | |
|--|-----------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| GSS-3640 Qualitative Methodology and Reasoning | 3 |
| GSS-3650 Quantitative Methodology | 3 |
| HIST-2010 History of Civilization to 1500..... | 3 |
| HIST-2020 History of Civilization Since 1500 | 3 |
| HIST-2620 Church and State..... | 3 |
| HIST-3000 Introduction to Historiography | 3 |
| *HIST-4500 Seminar | 15 |
| **HIST-4700 Research in History..... | 3 |
| INTL-2100 Global Issues | 3 |
| Total | 31 |

Third Year:

| | |
|--|-----------|
| BTGE-3755 Theology I..... | 3 |
| BTGE-3765 Theology II | 3 |
| HIST-3000 Introduction to Historiography | 3 |
| LIT-2XXX Literature Elective | 3 |
| Electives | 21 |
| Total | 33 |

Fourth Year:

| | |
|-------------------------------------|-----------|
| HIST-4500 Seminar | 15 |
| HIST-4700 Research in History | 3 |
| Electives | 14 |
| Total | 32 |

History

The **history major** prepares students for graduate work or for careers in a variety of fields including government, law, business, education, public history, and the Gospel ministry. Traditionally a key component of the classical liberal arts education, history and the skills demanded by the historical process provide a necessary foundation for learning. Coursework encourages students to evaluate the historical narrative based on biblical principles, resulting in an integrative understanding.

Course requirements involve 46 hours including:

| | |
|--|----|
| GSS-1350 Career Options..... | 1 |
| GSS-3640 Qualitative Methodology and Reasoning | 3 |
| GSS-3650 Quantitative Methodology | 3 |
| HIST-1110 United States History to 1877 | 3 |
| HIST-1120 United States History Since 1877 | 3 |
| HIST-2010 History of Civilization to 1500 | 3 |
| HIST-2020 History of Civilization Since 1500 | 3 |
| HIST-2620 Church and State | 3 |
| HIST-3000 Introduction to Historiography | 3 |
| *HIST-4500 Seminar | 15 |
| **HIST-4700 Research in History..... | 3 |
| INTL-2100 Global Issues | 3 |

*Students may take multiple topics, but not the same topics twice

**Capstone Course

History Major Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0–4 |
| Other General Education Requirements..... | 42–50 |
| History Major Requirements | 46 |
| Electives | 32–40 |
| Total (minimum, not including proficiency) | 128 |



Suggested Three-Year Curriculum for a Major in History

Fall Year 1:

| | |
|--|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| GSS-1350 Career Options..... | 1 |
| HIST-1110 United States History to 1877 | 3 |
| HIST-2010 History of Civilization to 1500..... | 3 |
| Electives | 1 |
| Total | 17 |

Spring Year 1:

| | |
|--|-----------|
| BTGE-2730 Old Testament Literature..... | 3 |
| HIST-1120 United States History Since 1877 | 3 |
| HIST-2020 History of Civilization Since 1500 | 3 |
| HIST-2620 Church and State | 3 |
| INTL-2100 Global Issues | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Total | 17 |

Summer Year 1:

| | |
|---|-------------|
| BTGE-2740 New Testament Literature | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| LIT-2XXX Literature Elective | 3 |
| Physical Science Elective | 3.5 |
| Electives | 3 |
| Total | 15.5 |

Fall Year 2:

| | |
|--|-----------|
| GSS-3640 Qualitative Methodology and Reasoning | 3 |
| GSS-3650 Quantitative Methodology | 3 |
| Electives | 11 |
| Total | 17 |

Spring Year 2:

| | |
|----------------------------|-----------|
| BTGE-3755 Theology I | 3 |
| Electives | 12 |
| Total | 15 |

Summer Year 2:

| | |
|--|-------------|
| BTGE-3765 Theology II | 3 |
| HIST-4500 Seminar | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| Biology Elective | 3.5 |
| Humanities Elective | 3 |
| Total | 15.5 |

Fall Year 3:

| | |
|--|-----------|
| HIST-3000 Introduction to Historiography | 3 |
| Electives | 13 |
| Total | 16 |

Spring Year 3:

| | |
|-------------------------------------|-----------|
| HIST-4700 Research in History | 3 |
| HIST-4500 Seminar | 12 |
| Total | 15 |

Graduate Program Pathway Option for History

The Bachelor of Arts in history program offers an accelerated pathway to the Advanced Master of Divinity degree. You may view a sample curriculum plan at cedarville.edu/gradpathways.





International Studies

The **international studies major** provides students with a political view of the international community. Utilizing courses in economics, geography, history, literature, and political science, this program prepares students for careers in areas such as diplomacy, intelligence, international media, humanitarian assistance, international relations, and missions.

Course requirements involve 55 hours, including:

| | |
|---|-----------|
| International Studies Core | 24 |
| ANTH-1800 Cultural Anthropology | 3 |
| BTPA-2260 World Religions..... | 3 |
| BUS-3910 International Business..... | 3 |
| COM-2140 Intercultural Communication..... | 3 |
| (or PYCH-1800 Cross-Cultural Psychology.....) | 3) |
| HIST-2010 History of Civilization to 1500 | 3 |
| (or HIST-2020 History of Civilization Since 1500 | 3) |
| INTL-2100 Global Issues | 3 |
| INTL/POLS-3650 International Relations | 3 |
| INTL/POLS-3790 Comparative Politics..... | 3 |
| Social Science Requirements..... | 16 |
| ECON-3350 Comparative Economic Systems | 3 |
| GSS-1350 Career Options..... | 1 |
| GSS-3640 Qualitative Methodology and Reasoning | 3 |
| GSS-3650 Quantitative Methodology | 3 |
| *GSS-4900 Senior Research..... | 3 |
| HIST-2620 Church and State | 3 |
| Social science electives chosen from | 15 |
| Three or more courses selected from | 9 |
| ECON-3360 International Trade and Economics | 3 |
| ECON-3380 Economic Development and Political Economy | 3 |
| INTL-3040 History and Politics of the British Isles and Canada | 3 |
| INTL-3080 History and Politics of Russia and Eastern Europe | 3 |
| INTL-3200 History and Politics of Latin America | 3 |
| INTL-3210 History and Politics of East Asia | 3 |
| INTL-3220 History and Politics of the Middle East | 3 |
| INTL-3230 History and Politics of Western Europe | 3 |
| INTL-4160 International and Domestic Terrorism..... | 3 |
| INTL-4980 Independent Study in International Studies..... | 1–3 |
| At least one course from Biblical and Theological Studies | 3 |
| BTAT-3450 Contemporary World Missions | 3 |
| BTAT-3470 Cross-Cultural Ministry..... | 3 |
| At least one course in English, literature, and modern languages | 3 |
| LIT-2340 Western Literature | 3 |
| LIT-3400 Contemporary Studies in World Literature | 3 |
| LIT-XXXX Any Non-American Literature Course | 3 |
| LING-3080 Linguistics for Language Learning | 3 |
| 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). Study abroad must be approved by the department.

International Studies Major Curriculum Summary:

| | |
|---|------------|
| Proficiency Requirements | 0–4 |
| Other General Education Requirements | 39 |
| International Studies Requirements | 55 |
| Required Cognates | 0–15 |
| Electives | 19–34 |
| Total (minimum, not including proficiency) | 128 |

A complete description of the general education requirements is found on page 26

Suggested Four-Year Curriculum for a Major in International Studies

First Year:

| | |
|--|-----------|
| ANTH-1800 Cultural Anthropology | 3 |
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 English Composition..... | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| GSS-1350 Career Options..... | 1 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| INTL-2100 Global Issues | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Biological Science Elective | 3.5 |
| Physical Science Elective | 3.5 |
| Total | 31 |

Second Year:

| | |
|--|-----------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| BTPA-2260 World Religions..... | 3 |
| COM-2140 Intercultural Communication..... | 3 |
| (PYCH-1800 Cross-Cultural Psychology | 3) |
| GSS-3640 Qualitative Methodology and Reasoning | 3 |
| GSS-3650 Quantitative Methodology | 3 |
| HIST-2620 Church and State | 3 |
| Elementary Foreign Language requirement | 0–8 |
| Electives | 4–12 |
| Total | 33 |

Third Year:

| | |
|---|-----------|
| BTGE-3755 Theology I..... | 3 |
| BTGE-3765 Theology II | 3 |
| BUS-3910 International Business..... | 3 |
| ECON-3350 Comparative Economic Systems | 3 |
| INTL/POLS-3650 International Relations | 3 |
| Intermediate Foreign Language requirement | 0–7 |
| LIT-2XXX Literature Elective | 3 |
| Electives | 6–13 |
| Total | 31 |

Fourth Year:

| | |
|--|-----------|
| GSS-4900 Senior Research | 3 |
| HIST-2010 History of Civilization to 1500 | 3 |
| (or HIST-2020 History of Civilization Since 1500 | 3) |
| INTL-3790 Comparative Politics | 3 |
| Social Science Electives | 15 |
| Electives | 9 |
| Total | 33 |

Political Science

The political science major is designed to prepare students for advanced graduate education in the areas of American politics, international relations, political philosophy, and law. It also prepares students for careers in public policy analysis, international affairs, various levels of government, campaign management, interest groups, journalism, and many others.

Course requirements involve 52 semester hours including:

| Political Science requirements..... | 52 |
|---|-----------|
| GSS-1350 Career Options..... | 1 |
| GSS-3640 Qualitative Methodology and Reasoning | 3 |
| GSS-3650 Quantitative Methodology | 3 |
| *GSS-4900 Senior Research..... | 3 |
| HIST-2620 Church and State..... | 3 |
| INTL-2100 Global issues | 3 |
| POLS-2100 Topics (2 credit hours taken 3 times)..... | 6 |
| POLS-3650 International Relations | 3 |
| POLS-3690 Public Policy | 3 |
| POLS-3710 History of Political Thought I Ancient Through Medieval..... | 3 |
| POLS-3720 History of Political Thought II Modern and Contemporary..... | 3 |
| POLS-3790 Comparative Politics | 3 |
| POLS-4500 Seminar (3 credit hours taken 3 times) | 9 |
| POLS-4630 American Constitutional Law: Civil Liberties and Rights | 3 |
| POLS-4640 American Constitutional Law: Government Powers and Federalism..... | 3 |
| *Capstone Course | |

Political Science Major Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0-4 |
| Other General Education Requirements..... | 42-50 |
| Political Science Major Requirements | 52 |
| Electives | 26-34 |
| Total (minimum, not including proficiency) | 128 |



A complete description of the general education requirements is found on page 26

Suggested Four-Year Curriculum for a Major in Political Science

First Year:

| | |
|--|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| GSS-1350 Career Options..... | 1 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| INTL-2100 Global issues | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Biological Science Elective | 3.5 |
| Physical Science Elective | 3.5 |
| Electives | 6 |
| Total | 34 |

Second Year:

| | |
|--|-----------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| GSS-3640 Qualitative Methodology and Reasoning | 3 |
| GSS-3650 Quantitative Methodology | 3 |
| HIST-2620 Church and State..... | 3 |
| POLS-2100 Topics | 6 |
| Humanities Elective | 3 |
| LIT-2XXX Literature Elective | 3 |
| Electives | 5 |
| Total | 32 |

Third Year:

| | |
|---|-----------|
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| POLS-3650 International Relations | 3 |
| POLS-3690 Public Policy | 3 |
| POLS-3710 History of Political Thought I | 3 |
| POLS-3720 History of Political Thought II | 3 |
| POLS-4500 Seminar | 6 |
| Electives | 6 |
| Total | 30 |

Fourth Year:

| | |
|---|-----------|
| GSS-4900 Senior Research | 3 |
| POLS-3790 Comparative Politics | 3 |
| POLS-4630 American Constitutional Law: Civil Liberties and Rights | 3 |
| POLS-4640 American Constitutional Law: Government and Federalism | 3 |
| POLS-4500 Seminar | 3 |
| Electives | 17 |
| Total | 32 |

Graduate Program Pathway Option for Political Science

The Bachelor of Arts in political science program offers an accelerated pathway to the Advanced Master of Divinity degree. You may view a sample curriculum plan at cedarville.edu/gradpathways.



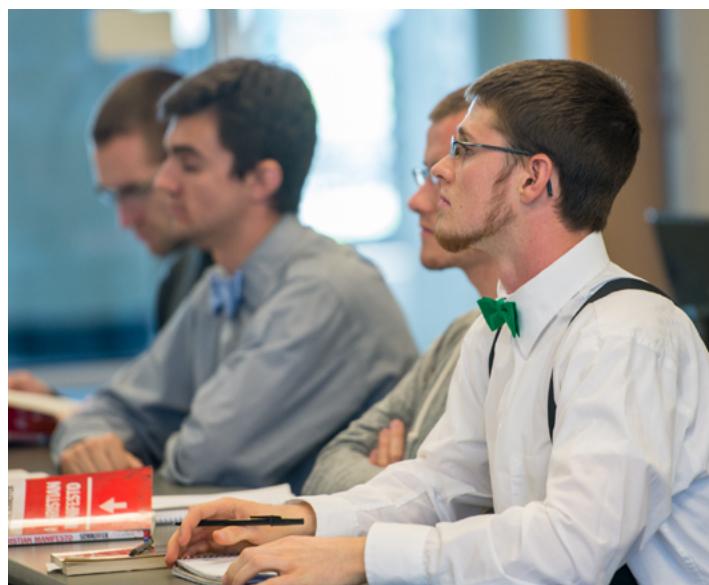
A complete description of the general education requirements is found on page 26

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 49 semester hours including:

| Prelaw Requirements | 49 |
|---|------------|
| ACCT-2110 Principles of Accounting I | 3 |
| BTPA-2200 Introduction to Philosophy | 3 |
| BTPA-2240 Logic | 3 |
| BUS-2180 Business Law I | 3 |
| CRJU-3400 Criminal Procedure | 3 |
| ECON-2110 Essentials of Economics | 3 |
| GSS-1350 Career Options | 1 |
| GSS-3640 Qualitative Methodology and Reasoning | 3 |
| GSS-3650 Quantitative Methodology | 3 |
| *GSS-4900 Senior Research | 3 |
| HIST-2620 Church and State | 3 |
| INTL-2100 Global Issues | 3 |
| POLS-3760 Jurisprudence: Philosophy of Law | 3 |
| POLS-4630 American Constitutional Law: Civil Liberties and Rights | 3 |
| POLS-4640 American Constitutional Law: Government Powers and Federalism | 3 |
| PWID-3010 Style and Mechanics for Writers | 3 |
| Elective selected from the following | 3 |
| POLS-3720 History of Political Thought II: Modern and Contemporary | 3 |
| POLS-4500 Seminar | 3 |
| PUAD-3600 Public Administration | 3 |
| *Capstone Course | |
| Prelaw Major Curriculum Summary | |
| Proficiency Requirements | 0-4 |
| Other General Education Requirements | 39-47 |
| Prelaw Major Requirements | 49 |
| General Electives | 32-40 |
| Total (minimum, not including proficiency) | 128 |



| Suggested Four-Year Curriculum for a Major in Prelaw | |
|---|-----------|
| <i>First Year:</i> | |
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech | 3 |
| ENG-1400 Composition | 3 |
| GSS-1100 Politics and American Culture | 3 |
| GSS-1350 Career Options | 1 |
| HUM-1400 Introduction to the Humanities | 3 |
| INTL-2100 Global Issues | 3 |
| PEF-1990 Physical Activity and Healthy Living | 2 |
| Biological Sciences Elective | 3.5 |
| LIT-2XXX Literature Elective | 3 |
| Physical Science Elective | 3.5 |
| Total | 31 |
| <i>Second Year:</i> | |
| ACCT-2110 Principles of Accounting I | 3 |
| BTGE-2730 Old Testament Literature | 3 |
| BTGE-2740 New Testament Literature | 3 |
| BTPA-2200 Introduction to Philosophy | 3 |
| BTPA-2240 Logic | 3 |
| BUS-2180 Business Law I | 3 |
| CRJU-3400 Criminal Procedure | 3 |
| ECON-2110 Essentials of Economics | 3 |
| GSS-3640 Qualitative Methodology and Reasoning | 3 |
| GSS-3650 Quantitative Methodology | 3 |
| HIST-2620 Church and State | 3 |
| Total | 33 |
| <i>Third Year:</i> | |
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| POLS-3760 Jurisprudence: Philosophy of Law | 3 |
| PWID-3010 Style and Mechanics for Writers | 3 |
| Electives | 18 |
| Total | 30 |
| <i>Fourth Year:</i> | |
| GSS-4900 Senior Research | 3 |
| POLS-4630 American Constitutional Law: Civil Liberties and Rights | 3 |
| POLS-4640 American Constitutional Law: Governments Powers and Federalism | 3 |
| Prelaw Elective | 3 |
| Electives | 22 |
| Total | 34 |



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. For additional information about teaching in other states, see the School of Education and Social Work section of this catalog.

Course requirements involve 40 semester hours including:

| | |
|--|---------------|
| Integrated Social Studies Professional Content | 38 |
| ANTH-1800 Cultural Anthropology | 3 |
| ECON-2110 Essentials of Economics..... | 3 |
| GEO-3510 World Regional Geography: Western..... | 3 |
| GEO-3520 World Regional Geography: Eastern | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| GSS-3810 Clinical Teaching in Social Studies I..... | 1 |
| GSS-3820 Clinical Teaching in Social Studies II | 1 |
| HIST-1110 United States History to 1877 | 3 |
| HIST-1120 United States History Since 1877..... | 3 |
| HIST-2010 History of Civilization to 1500 | 3 |
| HIST-2020 History of Civilization Since 1500 | 3 |
| HIST-3200 History and Politics of Latin America | 3 |
| (or HIST-3210 History and Politics of East Asia | 3) |
| (or HIST-3220 History and Politics of the Middle East..... | 3) |
| HIST/SOC-3750 Social Movements | 3 |
| SOC-1300 Introduction to Sociology | 3 |
| Teacher Education | 43 |
| Teacher Education Program Pre-requisites | 14 |
| EDSP-2100 Exceptionalities and Behavior | 2 |
| EDUC-1000 The Education Profession | 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 |
| Professional Program Requirements | 29 |
| EDSE-3000 Principles of Teaching AYA Learners | 4 |
| EDSE-4450 Adolescent/Young Adult Field Experience | 2 |
| EDSP-4250 Communication, Collaboration and Inclusion.2 | |
| EDUC-3100 Philosophical Foundations of Education..... | 3 |
| EDUC-3200 Faith and Learning Alignment (4–12)..... | 1 |
| EDUC-4000 Reading and Writing in the Disciplines: AYA and Multi-Age | 3 |
| SSED-3800 Teaching Social Studies: AYA | 2 |
| Capstone | 12 |
| EDSE-4900 Student Teaching and Seminar: AYA | 12 |

Students must also select a concentration in economics, geography, history, political science, or sociology.

| | |
|--|-----------|
| Economics Concentration | 15 |
| ECON-2340 Macroeconomics..... | 3 |
| ECON-3340 History of Economic Thought..... | 3 |
| GSS-3650 Quantitative Methodology | 3 |
| Economics electives selected from | 6 |
| ECON-3310 Money and Financial Markets..... | 3 |
| ECON-3350 Comparative Economic Systems..... | 3 |
| ECON-3360 International Trade Economics | 3 |
| ECON-3390 Public Finance | 3 |

| | |
|--|---------------|
| Geography Concentration | 12 |
| GSS-3650 Quantitative Methodology | 3 |
| Select three courses from the following not taken in core: 9 | |
| GSS-4900 Senior Research..... | 3 |
| HIST-3200 History and Politics of Latin America..... | 3 |
| HIST-3210 History and Politics of East Asia..... | 3 |
| HIST-3220 History and Politics of The Middle East..... | 3 |
| History Concentration | 12 |
| HIST-3000 Introduction to Historiography | 3 |
| History electives selected from | 9 |
| HIST-3030 History of Christianity: Pre-Reformation | 3 |
| HIST-3040 History and Politics of the British Isles and Canada | 3 |
| HIST-3050 Renaissance and Reformation Europe | 3 |
| HIST-3080 History of Russia and Eastern Europe | 3 |
| HIST-3110 Early American History | 3 |
| HIST-3120 History of Recent Contemporary America..... | 3 |
| HIST-3130 Civil War and Reconstruction | 3 |
| HIST-3230 History and Politics of Western Europe | 3 |
| HIST-4050 Diplomacy of the Major Powers..... | 3 |
| HIST-4440 Special Topics: History | 1-3 |
| HIST-4900 Independent Study in History | 1-3 |
| Political Science Concentration | 12 |
| GSS-3650 Quantitative Methodology | 3 |
| POLS-2620 American State and Local Government | 3 |
| Political science elective selected from | 6 |
| CRJU-3360 American Judicial Systems..... | 3 |
| HIST-2620 Church and State | 3 |
| 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 | 3 |
| POLS-4630 American Constitutional Law: Civil Liberties and Rights..... | 3 |
| Sociology Concentration | 12 |
| GSS-3650 Quantitative Methodology | 3 |
| SOC-4720 Social Theory..... | 3 |
| Sociology electives selected from | 6 |
| SOC-2200 Criminology | 3 |
| SOC-2310 Juvenile Delinquency | 3 |
| SOC-2400 Marriage and the Family | 3 |
| SOC-2840 Concepts of Chemical Dependency..... | 3 |
| SOC-2900 Ethics in the Helping Professions..... | 3 |
| SOC-3330 Social Stratification | 3 |
| SOC-3340 Sociology of Religion | 3 |
| SOC-3710 Family and Society | 3 |
| SOC-3730 Social Problems | 3 |
| Social Studies Education — Integrated Major Curriculum Summary | |
| Proficiency Requirements | 0-4 |
| Other General Education Requirements..... | 39-47 |
| Integrated Social Studies Education Professional Content.... | 50-53 |
| Teacher Education Professional Requirements | 43 |
| Total (minimum, not including proficiency) | 132 |



A complete description of the general education requirements is found on page 26

Suggested Four-Year Curriculum for a Major in Social Studies Education — Integrated

First Year:

| | |
|--|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| EDUC-1000 The Education Profession..... | 2 |
| ENG-1400 Composition..... | 3 |
| GBIO-1000 Principles of Biology | 3.5 |
| GSS-1100 Politics and American Culture..... | 3 |
| HIST-1110 United States History to 1877 | 3 |
| HIST-1120 United States History Since 1877 | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Physical Science Elective | 3.5 |
| Quantitative Requirement..... | 3 |
| Total | 35 |

Second Year:

| | |
|--|-----------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| ECON-2110 Essentials of Economics..... | 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 |
| HIST-2010 History of Civilization to 1500 | 3 |
| HIST-2020 History of Civilization Since 1500 | 3 |
| Concentration 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 East 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 |
| Concentration Requirement..... | 6 |
| Total | 33 |

Fourth Year:

| | |
|---|-----------|
| ANTH-1800 Cultural Anthropology | 3 |
| EDSE-4450 Adolescent/Young Adult Field Experience | 2 |
| EDSE-4900 Student Teaching and Seminar: AYA | 12 |
| EDSP-4250 Communication, Collaboration, and Inclusion..... | 2 |
| EDUC-3100 Philosophical Foundations of Education | 3 |
| EDUC-4000 Reading and Writing in the Disciplines: AYA and Multi-Age | 3 |
| HIST-3750 Social Movements | 3 |
| LIT-2XXX Literature Elective | 3 |
| Total | 31 |

Minors

Church History Minor

Course requirements for a minor in **church history** involve 18 semester hours including:

| | |
|---|---|
| BTHT-2500 Church History..... | 3 |
| BTHT-3500 Historical Theology | 3 |
| HIST-3030 History of Christianity: Pre-Reformation..... | 3 |
| HIST-3050 Renaissance and Reformation Europe | 3 |
| HIST-3300 Modern Church History: Reformation to the Present | 3 |
| Electives | 3 |
| BTAT-2420 History of Mission..... | 3 |
| HIST-2620 Church & State | 3 |
| HIST-3310 American Church History..... | 3 |

Criminal Justice Minor

Course requirements for a minor in criminal justice involve 18 semester hours including:

| | |
|--|----|
| CRJU-1310 Introduction to Criminal Justice | 3 |
| CRJU-XXXX Criminal Justice Electives | 15 |

History Minor

Course requirements for a minor in **history** involve 17 semester hours including:

| | |
|--|---|
| HIST-1110 United States History to 1877 | 3 |
| HIST-1120 United States History Since 1877 | 3 |
| HIST-2010 History of Civilization to 1500 | 3 |
| HIST-2020 History of Civilization Since 1500 | 3 |
| HIST-XXXX History Electives | 5 |

International Studies Minor

Course requirements for a minor in **international studies** involve 18 semester hours including:

| | |
|---|---|
| Courses selected from the international studies core requirements | 9 |
| *Courses selected from the international studies curriculum | 9 |

*Three courses from the international studies social science, at least 2 of which — must be in the social sciences



National Security Minor

| |
|--|
| Course requirements for a minor in national security involve 21 semester hours including: |
| GSS-4990 Social Science/History Internship* 15 |
| Two electives selected from: 6 |
| CRJU-3500 Foundations of Emergency Management** 3 |
| CRJU-4150 Homeland Security** 3 |
| CRJU/INTL-4160 International and Domestic Terrorism** 3 |
| HIST/INTL/POLS-3400 History of American Foreign Policy.. 3 |
| INTL/POLS-3650 International Relations 3 |

*WSARC Wright State Applied Research Corporation

**Prerequisites waived for national security minor

Political Science Minor

| |
|--|
| Course requirements for a minor in political science involve 18 semester hours including: |
| PUAD-3600 Public Administration 3 |
| POLS-XXXX Political Science Electives 15 |

Public Administration Minor

| |
|--|
| Course requirements for a minor in public administration involve 18 semester hours including: |
| MGMT-3500 Principles of Organization and Management 3 |
| POLS-4630 Amer Constit. Law: Civil Liberties and Rights 3 |
| PUAD-3600 Public Administration 3 |
| PUAD-3690 Public Policy 3 |
| PUAD-4640 Strategies for Public Administration 3 |
| ECON, POLS, or PUAD Electives 3 |

Public Policy Minor

| |
|--|
| Course requirements for a minor in public policy involve 22 semester hours including: |
| POLS-3690 Public Policy 3 |
| POLS-XXXX Political Science Elective 3 |
| DC Semester 16 |

Sociology Minor

| |
|--|
| Course requirements for a minor in sociology involve 18 semester hours including: |
| SOC-1300 Introduction to Sociology 3 |
| SOC-XXXX Sociology Electives 15 |





Music and Worship

Purpose Statement

The Department of Music and Worship in the Cedarville University School of Arts and Humanities 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.



Programs of Study

The Department of Music and Worship offers the following programs of study:

Bachelor of Arts (BA) in:

- Music
- Worship

Bachelor of Music (BM) in:

- Composition
- Keyboard Pedagogy
- Performance

Bachelor of Music Education (BME) in:

- Choral
- Instrumental

Minors

- Music
- Music Technology
- Songwriting
- Worship

Requirements for Music and Worship Admission

Admission and Auditions

Applicants who wish to major in music or worship should follow the standard procedures for admission to the University. Satisfactory completion of an audition is required for approval as a music or worship major.

Students should visit the website at cedarville.edu/musicworship (Music Auditions or Worship Auditions) to obtain audition requirements and to schedule an audition.

Scholarships

Scholarship assistance is available to music and worship majors who qualify on the basis of audition, academic record, and references. Additional academic scholarships and other types of financial assistance are available to qualified individuals through Cedarville University Financial Aid.

Music Theory Placement Exam

All incoming music majors are required to take the Music Theory Placement Exam. This test assures that students have the minimum knowledge necessary for college-level music theory courses. The exam is given on all audition days and during Getting Started Week activities. Though not required, all incoming worship majors are highly encouraged to take the Theory Placement Exam.

Students who have had significant music theory training prior to attending Cedarville may take the Music Theory Test-Out Exam. Contact the Department of Music and Worship for additional information regarding this test.

Department Requirements

To graduate with a major from the Department of Music and Worship, students must earn at least a 2.0 cumulative average in all courses required for their major and a "C-" or higher in all courses taken to meet specific requirements in their major.

Music Requirements

Admission

Application and admittance to the University, plus a successful audition, are required for all prospective music students before admission into the music program. The purpose of the audition is to evaluate your potential success as a music student and whether you will be admitted to the department to pursue a music degree. Guidelines for the audition can be found at cedarville.edu/music.

Private Lessons

Private lessons are open to all music majors and minors with curricular need. Students are required to take private lessons on their major instrument for each semester they are enrolled. Exceptions to this include students who are student teaching, BA Music students not pursuing a Performance concentration, and other circumstances as deemed appropriate by the chair. Private lessons are also open to non-majors. Inquiries about non-major lessons should be directed to the Administrative Assistant in the Department of Music and Worship.

Semester Performance Juries

All music majors perform a jury in their primary performing area every semester. The jury is a short performance for a committee of music faculty. The grade from the jury counts for 25 percent of the final grade in private lessons for the semester. For performance majors, the jury counts for 33 percent of the final grade in private lessons.

Freshman Review

After the second semester of study, freshmen are evaluated by a committee of music faculty to determine whether they are making adequate progress to continue in the music program. Students who do not show satisfactory progress may be asked to change majors.

Sophomore Review

While the primary screen for continuance in the music program occurs at the freshman review, student achievement is also checked at the end of the sophomore year to confirm adequate progress toward degree completion and admittance to upper-level music courses.

Piano Proficiency

All music majors are expected to meet the minimum proficiency requirements for piano as established by the department. Piano placement is done during Getting Started Week. Complete piano proficiency requirements are available in the music office.

Ensemble Participation

Music majors are required to participate in at least one large ensemble every semester they are enrolled. Once the credit requirements for their major are fulfilled, they may enroll for 0 credit.

Large ensembles include Wind Symphony, Orchestra, Jazz Band, Concert Chorale, Jubilate, Men's Glee Club, and Women's Choir.

Recital and Program Attendance

Attendance is required of all music majors and minors. All students must complete recital and program attendance each semester they are enrolled as a music major. Minors must take two semesters.

Capstone Recital or Project

In addition to performance in general student recitals throughout the college experience, all music majors are required to exhibit a level of performance for graduation that meets the requirements and standards of the department. For all majors, the capstone requirement is a senior recital or project.

Fees

Instrumental rental fee per semester is \$50. Practice room fee per semester is \$100 (per lesson credit hour). Private lesson fee is \$300 per semester. Classes that involve labs or University-provided student equipment may also have similar fees.

Music Student Handbook

The *Music Student Handbook* is the authoritative statement on all department policy as it applies to the student. Each music student is responsible for following the policies and procedures contained in both the handbook and the University catalog. The handbook can be found online at cedarville.edu/musicstudentresources

Worship Requirements

Admission

Program application and an audition are required for all prospective worship students before admission into the worship program. The purpose of the audition is to evaluate your potential success as a worship student and whether you will be admitted to the department to pursue a worship degree. Guidelines for the audition can be found at cedarville.edu/worship.

Private Lessons

All worship students are required to take private lessons. Students should study the instrument for which they are most proficient in order to improve their skills. Earnest practice is expected and mandatory for your success. Juries are required for each student taking private lessons.

Ensembles

All worship students are required to participate in an ensemble every semester that they are on campus.

Worship Forum

All worship students are required to participate in Worship Forum every semester that they are on campus. Worship Forum is designed to help address topics not easily addressed in class, to build community between worship students, and to allow students to work on projects and services together. The class is for zero credit and requirements will be given to you each semester.

First-Year Review

All entering students are admitted into the worship program on a conditional basis. At the end of the first year, students will be asked to complete and submit information that will be combined with their first year grades, recommendations, and private lesson reviews to determine the potential success of each student in upper-level coursework, field experience, internships, and as future worship leaders. The worship faculty members will meet during finals week 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.

Technical Resources

The Department of Music and Worship relies heavily on the use of technology to accomplish its educational objectives. Music students will spend time in a state-of-the-art music computer/synthesizer lab that allows them to practice ear training, produce printed musical scores, and complete fully orchestrated compositions.

Cocurricular Opportunities

All students are invited to audition for the numerous choral and instrumental ensembles that perform in many different venues throughout the academic year. Students may also participate in one of a growing number of small chamber music groups. Music education majors are required to participate in the collegiate chapter of the National Association for Music Education (NAfME). This award-winning chapter offers many professional and service opportunities to its members.

Career Opportunities

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

- College professor
- Community arts manager
- Composer/arranger
- Instrument salesperson
- Minister of music
- Music editor
- Music librarian
- Music supervisor
- Music therapist
- Performer
- Recording studio technician
- Retail music salesperson
- School teacher (elementary and secondary Christian or public schools)
- Studio teacher
- Worship leader

Faculty

Beth Cram Porter, Chair; Professor of Vocal Music. *Education:* BM, Baylor University, 1984; MA, Western Carolina University, 1996; voice student of Joyce Farwell. At Cedarville since 1997.

Roger O'Neal, Assistant Chair; Professor of Worship. *Education:* BM, Ouachita Baptist University, 1985; MM, Choral Conducting, Southern Methodist University, 1987; MM, Music Theory, Southern Methodist University, 1988; PhD, University of Texas at Austin, 1996. At Cedarville since 2002.

Connie Anderson, Assistant Professor of Piano Pedagogy. *Education:* BA, Cedarville University, 1973; MM, Wright State University, 1994. At Cedarville since 1999.

Lyle Anderson, Senior Professor of Music. *Education:* BME, Cedarville University, 1970; MA, The Ohio State University, 1971; PhD, The Ohio State University, 1977. At Cedarville since 1970.

John Chilcote, Assistant Professor of Music and Worship. *Education:* BA, Ohio Wesleyan University, 2000; MA, Hope International University, 2007; MDiv, Hope International University, 2019. At Cedarville since 2020.

Bruce Curlette, Professor of Music. *Education:* BS, Jacksonville State University, 1979; MM, Eastman School of Music, 1981; clarinet student of D. Stanley Hasty; DMA, 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; BM, Biola University, 1990; MM, College-Conservatory of Music University of Cincinnati 1993. At Cedarville since 2013.

Austin Jaquith, Professor of Music Theory and Composition. *Education:* BM, Cleveland Institute of Music, 2003; MM, University of Houston, 2005; DMA, Indiana University, 2009. At Cedarville since 2009.

Chet Jenkins, Assistant Professor of Music. *Education:* BA, Cedarville University, 1997; MM, Ohio University, 2013; DMA, The Ohio State University, 2018. At Cedarville since 2017.

Louima Lilite, Professor of Music. *Education:* BM, Biola University, 1999; MM, The Pennsylvania State University, 2002; DMA, Eastman School of Music, 2008; voice student of Carole Webber. At Cedarville since 2023.

John Mortensen, Professor of Music. *Education:* BMA., University of Michigan, 1988; piano student of Anne Koscielny and Raymond Hanson; MM, University of Maryland, 1990; DMA, University of Maryland, 1994. At Cedarville since 1995.

Susan Troth, Associate Professor of Worship. *Education:* BM, Baylor University, 1984; MM, University of South Florida, 1996. At Cedarville since 2013.

Sandra Yang, Professor of Music History. *Education:* BA, University of California, Los Angeles, 1971; MA, U.C.L.A., 1992; PhD, U.C.L.A., 1997. At Cedarville since 2009.

Emeriti

Charles Clevenger, Senior Professor Emeritus of Music. *Education:* BA, Bob Jones University, 1974; piano student of Imogene Darling, Laurence Morton, Raymond Dudley, and Richard Morris; MM, University of Cincinnati College-Conservatory of Music, 1976; DMA, University of Cincinnati College-Conservatory of Music, 1985. At Cedarville since 1982.

Michael DiCirici, Senior Professor Emeritus of Music. *Education:* BM, University of Michigan, 1971; euphonium/trombone student of Fred Snyder, Abe Torchinsky, and Glenn Smith; MM, University of Michigan, 1977. At Cedarville since 1979.

Charles Pagnard, Senior Professor Emeritus of Music. *Education:* BM, Bowling Green State University, 1970; trumpet student of Sidney Mear, Richard Jones, Edwin Betts, and Ettore Chiudioni; MM, Eastman School of Music, 1976; graduate study, University of Cincinnati College-Conservatory of Music, 1984. At Cedarville since 1977.

Mark Spencer, Professor Emeritus of Music. *Education:* BA, Judson College, 1981; MM, Southwestern Baptist Theological Seminary, 1984; DMA, Southwestern Baptist Theological Seminary, 1992; voice student of Jack Coldiron. At Cedarville since 1993.

Adjunct Faculty

- Lori Akins, flute
- Shu-Li Cheah, cello
- Michael Delfin, piano
- Jim Cato, worship
- Amy Hutchison, piano
- Kimberly McCann, horn
- Lisa Grove, oboe
- Anton Neumayr, string bass
- Gerald Noble, percussion
- Charles Pagnard, trumpet
- Michelle Mastin viola
- Jackie Davis, harp
- Brandon Waltz, worship
- Joe Hesseman, bassoon



Composition

Statement of Purpose

The **composition major** prepares the student for a career that involves film and concert composition, arranging, music production, and music entrepreneurship. Students are prepared with a solid foundation of musicianship that encompasses theory and aural skills, conducting, and instrumental or vocal performance. This foundation is then built upon through intensive studies in composition and technology that prepare students to be composers of the 21st century.

Program Objectives

Upon completion of the BM degree in composition, students will be able to:

- Demonstrate significant achievement in core musical knowledge and skills.
- Perform proficiently on a primary instrument.
- Demonstrate an understanding of current music production and technology applications.
- Develop superlative compositional abilities through the creation of a large and varied portfolio of original compositions.

Students pursuing this major must complete the general education core.

The following requirements involve 74–82 semester hours:

| | |
|--|--------------|
| Proficiencies | 0–6 |
| Piano..... | 0–4 |
| CLMU-1810 Piano Class I..... | 0–2 |
| CLMU-1820 Piano Class II..... | 0–2 |
| THMU-1010 Introduction to Music Theory and Aural Skills ... | 0–2 |
| Music Foundation and Skills | 27–28 |
| CDMU-2600 Introduction to Conducting..... | 2 |
| GMUS-1000 Music Philosophy and Aesthetics..... | 1 |
| GMUS-1030 Recital and Program Attendance..... | 0 |
| HLMU-2100 Jazz History: Music of the Multi-Culture | 2 |
| (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 following | 2 |
| CDMU-3610 Choral Conducting | 2 |
| CDMU-3620 Instrumental Conducting | 2 |
| Music Contexts | 9 |
| HLMU-2310 Introduction to Music Literature | 3 |
| HLMU-3310, 3320 Music History I and II..... | 6 |
| Music Performance..... | 10 |
| PFMU-3100–3980 Large Ensemble | 2 |
| PLMU-1000/4830 Private Lessons | 6 |
| PLMU-3920 Junior Composition Project..... | 1 |
| *PLMU-4900 Senior Recital..... | 1 |
| Music Composition | 28–29 |
| CLMU-2850 Composition Seminar..... | 0 |
| CLMU-2860 Composition Portfolio | 0 |
| PLMU-1800, 2800, 3800, 4800 Music Composition | 12 |
| THMU-4100 Counterpoint..... | 3 |
| THMU-4110 Form and Analysis | 3 |
| THMU-4130 Orchestration..... | 2 |
| TYMU-2510 Introduction to Digital Music Production | 3 |
| TYMU-2520 Music Production Techniques | 3 |
| (or TYMU-3510 Electronic Music Production..... | 3) |
| (or THMU-4140 Choral Arranging | 2) |
| TYMU-3520 Scoring for Digital Media..... | 3 |

*Capstone Course





Composition Major Curriculum Summary

| | |
|---|------------|
| General Education Proficiency Requirements | 0–4 |
| General Education Requirements | 48–56 |
| Composition Major Requirements | 74–82 |
| Electives | 0–6 |
| Total (minimum, not including proficiency) | 128 |



A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Composition

First Year:

| | |
|---|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| CLMU-2850 Composition Seminar (both semesters) | 0 |
| COM-1100 Fundamentals of Speech | 3 |
| ENG-1400 Composition | 3 |
| GMUS-1000 Music Philosophy and Aesthetics | 1 |
| GMUS-1030 Recital and Program Attendance (both semesters) | 0 |
| PFMU-XXXX Large Ensemble Performance | 0 |
| PLMU-1800 Private Lesson in Composition | 2 |
| PLMU-XXXX Private Lessons | 2 |
| THMU-1210, 1220 Music Theory I and II | 6 |
| THMU-1310, 1320 Aural Skills I and II | 4 |
| TYMU-2510 Introduction to Digital Music Production | 3 |
| LIT-2XXX Literature Elective | 3 |
| Quantitative Elective | 3 |
| Total | 33 |

Second Year:

| | |
|---|-----------|
| BTGE-2730 Old Testament Literature | 3 |
| BTGE-2740 New Testament Literature | 3 |
| CDMU-2600 Introduction to Conducting | 2 |
| CLMU-2850 Composition Seminar (both semesters) | 0 |
| GMUS-1030 Recital and Program Attendance (both semesters) | 0 |
| HLMU-2100 Jazz History: Music of the Multi-Culture | 2 |
| (or HLMU-3400 Global Music | 3) |
| HLMU-2310 Introduction to Music Literature | 3 |
| PEF-1990 Physical Activity and Healthy Living | 2 |
| PFMU-XXXX Large Ensemble Performance | 1 |
| PLMU-2800 Music Composition | 2 |
| PLMU-XXXX Private Lessons | 2 |
| THMU-2210, 2220 Music Theory III and IV | 6 |
| THMU-2310, 2320 Aural Skills III and IV | 4 |
| Total | 30 |

Third Year:

| | |
|---|-------------|
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| CDMU-3620 Instrumental Conducting | 2 |
| (or CDMU-3610 Choral Conducting | 2) |
| CLMU-2850 Composition Seminar (both semesters) | 0 |
| GMUS-1030 Recital and Program Attendance (both semesters) | 0 |
| GSS-1100 Politics and American Culture | 3 |
| HLMU-3310, 3320 Music History I and II | 6 |
| PFMU-XXXX Large Ensemble Performance | 0 |
| PLMU-3800 Music Composition | 4 |
| PLMU-3920 Junior Composition Project | 1 |
| TYMU-2520 Music Production Techniques | 3 |
| (or TYMU-3510 Electronic Music Production | 3) |
| (or THMU-4140 Choral Arranging | 2) |
| TYMU-3520 Scoring for Digital Media | 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 |
| THMU-4100 Counterpoint | 3 |
| THMU-4110 Form and Analysis | 3 |
| THMU-4130 Orchestration | 2 |
| Physical Science Elective | 3.5 |
| Social Science/Global Awareness Elective | 3 |
| Elective | 5 |
| Total | 30.5 |

Keyboard Pedagogy

Statement of Purpose

The purpose of the **Bachelor of Music degree in keyboard pedagogy** is to thoroughly equip graduates to professionally teach students the art of piano playing. The program is designed to comprehensively address the needs of piano students of all ages and levels of proficiency.

Program Objectives

Through the keyboard pedagogy curriculum, students will be able to:

- Apply practical criteria in the evaluation of methods books.
- Implement group instruction methods in their teaching.
- Evaluate student progress through the establishment of educational goals and careful record keeping.
- Cope with performance anxiety and avoid physical injury.
- Identify the primary professional associations and periodicals that relate specifically to piano teaching.
- Demonstrate knowledge of business practices and organizational procedures necessary for the establishment of a professional piano studio.
- Communicate effectively in one-on-one teaching.

Students pursuing this major must complete the general education core.

The following requirements involve 75–82 semester hours:

| | |
|--|--------------|
| Proficiencies | 0–6 |
| Piano..... | 0–4 |
| CLMU-1810 Piano Class I..... | 0–2 |
| CLMU-1820 Piano Class II..... | 0–2 |
| THMU-1010 Introduction to Music Theory and Aural Skills ... | 0–2 |
| Music Foundation and Skills | 25–26 |
| CDMU-2600 Introduction to Conducting..... | 2 |
| GMUS-1000 Music Philosophy and Aesthetics..... | 1 |
| GMUS-1030 Recital and Program Attendance..... | 0 |
| HLMU-2100 Jazz History: Music of the Multi-Culture | 2 |
| (or HLMU-3400 Global Music.....) | 3 |
| THMU-1210, 1220, 2210, 2220 Music Theory I, II, III, and IV. | 12 |
| THMU-1310, 1320, 2310, 2320 Aural Skills I, II, III, and IV | 8 |
| Music Contexts | 9 |
| HLMU-2310 Introduction to Music Literature | 3 |
| HLMU-3310, 3320 Music History I and II..... | 6 |
| Music Performance..... | 19 |
| PFMU-3100–3980 Large Ensemble | 4 |
| PLMU-1000/4830 Private Lessons | 14 |
| *PLMU-4900 Senior Recital..... | 1 |
| Keyboard Pedagogy | 22 |
| KPMU-2010, 2020 Keyboard Pedagogy I and II | 6 |
| KPMU-3110, 3120 Directed Teaching I and II | 2 |
| KPMU-4110, 4120 Directed Teaching III, and IV | 4 |
| KPMU-3150, 3160, 4150, 4160 Keyboard Pedagogy Seminar I, II, III, and IV | 8 |
| Approved Music Elective | 2 |
| *Capstone Course | |

Keyboard Pedagogy Major Curriculum Summary

| | |
|---|------------|
| General Education Proficiency Requirements | 0–4 |
| General Education Requirements..... | 48–56 |
| Keyboard Pedagogy Major Requirements | 75–82 |
| Electives | 0–5 |
| Total (minimum, not including proficiency) | 128 |

Suggested Four-Year Curriculum for a Major in Keyboard Pedagogy

First Year:

| | |
|--|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| GMUS-1000 Music Philosophy and Aesthetics | 1 |
| GMUS-1030 Recital and Program Attendance (both semesters)..... | 0 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| PFMU-XXXX Ensemble Performance | 2 |
| PLMU-XXXX Private Lessons | 4 |
| THMU-1210, 1220 Music Theory I and II..... | 6 |
| THMU-1310, 1320 Aural Skills I and II | 4 |
| Quantitative Elective | 3 |
| Total | 31 |

Second Year:

| | |
|--|-----------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| CDMU-2600 Introduction to Conducting..... | 2 |
| GMUS-1030 Recital and Program Attendance (both semesters)..... | 0 |
| HLMU-2100 Jazz History: Music of the Multi-Culture | 2 |
| (or HLMU-3400 Global Music | 3 |
| HLMU-2310 Introduction to Music Literature | 3 |
| KPMU-2010, 2020 Keyboard Pedagogy I and II | 6 |
| PFMU-XXXX Ensemble Performance | 0 |
| PLMU-XXXX Private Lessons | 4 |
| THMU-2210, 2220 Music Theory III and IV | 6 |
| THMU-2310, 2320 Aural Skills III and IV | 4 |
| Total | 33 |

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 Music History I | 3 |
| HLMU-3320 Music History II | 3 |
| KPMU-3110, 3120 Directed Teaching I and II | 2 |
| KPMU-3150, 3160 Keyboard Pedagogy Seminar I and II | 4 |
| PFMU-XXXX Ensemble Performance | 0 |
| PLMU-XXXX Private Lessons | 4 |
| Biology Elective | 3.5 |
| History Elective | 3 |
| Literature Elective | 3 |
| Total | 34.5 |

Fourth Year:

| | |
|--|-------------|
| GMUS-1030 Recital and Program Attendance (both semesters)..... | 0 |
| HUM-1400 Introduction to the Humanities | 3 |
| KPMU-4110, 4120 Directed Teaching III and IV | 4 |
| KPMU-4150, 4160 Keyboard Pedagogy Seminar III and IV | 4 |
| PFMU-XXXX Ensemble Performance | 2 |
| PLMU-4900 Senior Recital | 1 |
| PLMU-XXXX Private Lessons | 2 |
| Music Elective | 2 |
| Physical Science Elective | 3.5 |
| Social Science/Global Awareness Elective | 3 |
| Elective | 5 |
| Total | 29.5 |



Music

Statement of Purpose

The **Bachelor of Arts in music degree** is designed for students with a strong interest in music and other academic areas. It is an ideal degree for musically talented students who plan to pursue graduate programs that will accept a bachelor's degree in any academic major, such as law, international studies, and music therapy. The approved elective credits within the major allow students to add specialized courses from any other area.

Program Objectives

Upon completion of the BA in music curriculum, students will be able to:

- Identify visually and aurally the building blocks of musical composition
- Formulate, articulate, and defend a philosophy of music based upon sound interpretation of biblical principles.
- Demonstrate facility in the use of music technology.
- Perform proficiently in private lessons and in a large ensemble.
- Research, plan, and perform/present a capstone senior recital or senior project.
- Value the functional role and stylistic diversity of music from various historical periods and cultures.

Course requirements involve 58–64 semester hours including:

| | |
|--|--------------|
| Proficiencies | 0–6 |
| Piano..... | 0–4 |
| CLMU-1810 Piano Class I..... | 0–2 |
| CLMU-1820 Piano Class II..... | 0–2 |
| THMU-1010 Introduction to Music Theory and Aural Skills ... | 0–2 |
| Music Foundation and Skills | 16 |
| GMUS-1000 Music Philosophy and Aesthetics..... | 1 |
| GMUS-1030 Recital and Program Attendance..... | 0 |
| THMU-1210, 1220, 2210 Music Theory I, II, and III | 9 |
| THMU-1310, 1320, 2310 Aural Skills I, II, and III | 6 |
| Music Contexts | 9 |
| HLMU-2310 Introduction to Music Literature | 3 |
| HLMU-3310, 3320 Music History I and II..... | 6 |
| Music Performance..... | 8 |
| PFMU-3100–3980 Large Ensemble | 2 |
| PLMU-1000/4830 Private Lessons | 6 |
| Music Concentrations | 25 |
| Primary Concentration (includes capstone course) | 13 |
| Secondary Concentration | 12 |
| Select primary and secondary concentrations from the following: | |
| Jazz and Improvisation Concentration | 12–13 |
| HLMU-2100 Jazz History: Music of the Multi-Culture..... | 2 |
| PFMU-3650 Chamber Ensemble..... | 3 |
| PFMU-3980 Jazz Band..... | 3 |
| THMU-3120 Jazz Theory and Improvisation I..... | 2 |
| THMU-3130 Jazz Theory and Improvisation II | 2 |
| *PLMU-4920 Senior Project..... | 1 |
| Music Composition Concentration | 12–13 |
| CLMU-2800 Introduction to Composition | 2 |
| PLMU-2800–4800 Music Composition | 6 |
| THMU-4130 Orchestration | 2 |
| THMU-4140 Choral Arranging..... | 2 |
| *PLMU-4920 Senior Project | 1 |

Music History Concentration.....

| | |
|---|---|
| HLMU-2100 Jazz History: Music of the Multi-Culture..... | 2 |
| HLMU-3400 Global Music..... | 3 |
| HLMU-3910 Writing and Research in Music I | 1 |
| HLMU-4910 Writing and Research in Music II | 1 |
| HLMU-4980 Special Topics in Music History | 2 |
| HLMU-3000/4000 elective | 3 |
| *PLMU-4920 Senior Project | 1 |

Music Technology Concentration.....

| | |
|--|---|
| TYMU-2510 Introduction to Digital Music Production | 3 |
| TYMU-2520 Music Production Techniques | 3 |
| TYMU-3510 Electronic Music Production..... | 3 |
| TYMU-3520 Scoring for Digital Media | 3 |
| *PLMU-4920 Senior Project | 1 |

Open Music Studies Concentration.....

| | |
|--|----|
| HLMU-3910 Writing and Research in Music I | 1 |
| Electives (approved by advisor) | 10 |
| HLMU-4910 Writing and Research in Music II | 1 |
| *PLMU-4920 Senior Project | 1 |

Performance Studies Concentration-Instrumental

| | |
|-------------------------------------|---|
| PFMU-3650 Chamber Ensemble..... | 3 |
| PLMU-1000–4830 Private Lessons..... | 8 |
| PLMU-3900 Junior Recital | 1 |
| *PLMU-4900 Senior Recital | 1 |

Performance Studies Concentration-Vocal

| | |
|--|----|
| CLMU-1170 Diction for Singers I..... | 2 |
| (or CLMU-1180 Diction for Singers II | 2) |
| PFMU-3650 Chamber Ensemble..... | 1 |
| (or PFMU-3850 Opera Ensemble | 1) |
| PLMU-1000–4830 Private Lessons..... | 8 |
| PLMU-3900 Junior Recital | 1 |
| *PLMU-4900 Senior Recital | 1 |

Worship Concentration

| | |
|--|---|
| BTAT-3730 Theology of Worship | 3 |
| THMU-1250 Contemporary Musicianship I | 2 |
| WSHP-1010 Introduction to Worship Ministry..... | 1 |
| WSHP-1020 Introduction to Worship Technology | 2 |
| WSHP-2060 Music and the Arts in Worship..... | 3 |
| WSHP-2200 Worship Field Experience..... | 1 |
| *PLMU-4920 Senior Project | 1 |

*Capstone Course required only if primary concentration.

Music Major Curriculum Summary

| | |
|---|------------|
| General Education Proficiency Requirements | 0–4 |
| General Education Requirements..... | 48–56 |
| Music Major Requirements..... | 58–64 |
| Electives | 8–22 |
| Total (minimum, not including proficiency) | 128 |

A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Music

First Year:

| | |
|--|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| GMUS-1000 Music Philosophy and Aesthetics | 1 |
| GMUS-1030 Recital and Program Attendance (both semesters)..... | 0 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| PFMU-3100/3980 Large Ensemble | 2 |
| PLMU-1000/4830 Private Lessons | 2 |
| THMU-1210, 1220 Music Theory I and II..... | 6 |
| THMU-1310, 1320 Aural Skills I and II | 4 |
| History Elective..... | 3 |
| Quantitative Elective | 3 |
| Total | 32 |

Second Year:

| | |
|--|-----------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| GMUS-1030 Recital and Program Attendance (both semesters)..... | 0 |
| HLMU-2310 Introduction to Music Literature | 3 |
| PLMU-1000/4830 Private Lessons | 2 |
| THMU-2210 Music Theory III..... | 3 |
| THMU-2310 Aural Skills III..... | 2 |
| Primary concentration | 12 |
| Secondary concentrations..... | 3 |
| Total | 31 |

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 |

Fourth Year:

| | |
|--|-------------|
| GMUS-1030 Recital and Program Attendance (both semesters)..... | 0 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| PLMU-4900 or 4920 Senior Recital or Project..... | 1 |
| Physical Science Elective | 3.5 |
| Social Science/Global Awareness Elective..... | 3 |
| Electives | 22 |
| Total | 32.5 |





**Suggested Three-Year Curriculum
for a Major in Music
Jazz and Improvisation/Open Music Concentration**

Fall Year 1:

| | |
|---|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| GMUS-1000 Music Philosophy and Aesthetics | 1 |
| GMUS-1030 Recital and Program Attendance..... | 0 |
| PFFMU-3650 Chamber Ensemble | 1 |
| PLMU-1000/4830 Private Lessons | 1 |
| THMU-1210 Music Theory I | 3 |
| THMU-1310 Aural Skills I | 2 |
| Total | 17 |

Spring Year 1:

| | |
|--|-----------|
| BTGE-2730 Old Testament Literature..... | 3 |
| GMUS-1030 Recital and Program Attendance..... | 0 |
| LIT-2XXX Literature Elective | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| PFFMU-3650 Chamber Ensemble | 1 |
| PLMU-1000/4830 Private Lessons | 1 |
| THMU-1220 Music Theory II..... | 3 |
| THMU-1320 Aural Skills II..... | 2 |
| Elective | 1 |
| Total | 16 |

Summer Year 1:

| | |
|---|-------------|
| BTGE-2740 New Testament Literature | 3 |
| GMUS-1030 Recital and Program Attendance..... | 0 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| Physical Science Elective | 3.5 |
| Quantitative Elective | 3 |
| Electives | 3 |
| Total | 15.5 |

Fall Year 2:

| | |
|---|-----------|
| GMUS-1030 Recital and Program Attendance..... | 0 |
| HLMU-2100 Jazz History-Music of the Multi Culture | 2 |
| HLMU-3910 Writing and Research in Music I | 1 |
| PFFMU-3100/3980 Large Ensemble | 1 |
| PFFMU-3650 Chamber Ensemble | 1 |
| PLMU-1000/4830 Private Lessons | 1 |
| THMU-2210 Music Theory III..... | 3 |
| THMU-2310 Aural Skills III..... | 2 |
| Electives | 5 |
| Total | 16 |

Spring Year 2:

| | |
|--|-----------|
| BTGE-3755 Theology I | 3 |
| GMUS-1030 Recital and Program Attendance..... | 0 |
| HLMU-2310 Introduction to Music Literature | 3 |
| PFFMU-3100/3980 Large Ensemble | 1 |
| PFFMU-3980 Jazz Band | 1 |
| PLMU-1000/4830 Private Lessons | 1 |
| MUS Electives | 6 |
| Electives | 2 |
| Total | 17 |

Summer Year 2:

| | |
|---|-------------|
| BTGE-3765 Theology II | 3 |
| GMUS-1030 Recital and Program Attendance..... | 0 |
| GSS-1100 Politics and American Culture..... | 3 |
| Biology Elective | 3.5 |
| History Elective | 3 |
| Social Science/Global Awareness Elective..... | 3 |
| Total | 15.5 |

Fall Year 3:

| | |
|--|-----------|
| GMUS-1030 Recital and Program Attendance..... | 0 |
| HLMU-3310 Music History I | 3 |
| HLMU-4910 Writing and Research in Music II | 1 |
| PFFMU-3980 Jazz Band | 1 |
| PLMU-1000/4830 Private Lessons | 1 |
| THMU-3120 Jazz Theory and Improvisation I | 2 |
| MUS Electives | 4 |
| Electives | 3 |
| Total | 15 |

Spring Year 3:

| | |
|--|-----------|
| GMUS-1030 Recital and Program Attendance..... | 0 |
| HLMU-3320 Music History II | 3 |
| PFFMU-3980 Jazz Band | 1 |
| PLMU-1000/4830 Private Lessons | 1 |
| PLMU-4920 Senior Project | 1 |
| THMU-3130 Jazz Theory and Improvisation II | 2 |
| Electives | 8 |
| Total | 16 |

Graduate Program Pathway Option for Music

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



Performance

Statement of Purpose

The purpose of the **Bachelor of Music degree** in performance is to prepare students for graduate school and careers in performance. The program is designed to offer the highest possible level of studio instruction and mentoring, opportunity for solo and ensemble performance, and general knowledge of the music literature of the performance area.

Program Objectives

- A graduate of the Bachelor of Music in performance degree will:
 - Display familiarity with the music of their instrument, including all essential music associated with their instrument.
 - Communicate effectively about music performance from a theological perspective.
 - Evaluate with professional awareness the important performers, recordings, institutions, and events that are significant to their instrument.
 - Develop skills concerning the intricacies of the physical technique of playing their instrument, and be able to articulate this knowledge to others.
 - Have the skills necessary to prepare for performance independent of outside teaching and assistance.

Students pursuing this major must complete the general education core.

The following requirements involve 75–82 semester hours:

| | |
|---|--------------|
| Proficiencies | 0–6 |
| Piano..... | 0–4 |
| CLMU-1810 Piano Class I..... | 0–2 |
| CLMU-1820 Piano Class II..... | 0–2 |
| THMU-1010 Introduction to Music Theory and Aural Skills .. | 0–2 |
| Music Foundation and Skills | 30–31 |
| CDMU-2600 Introduction to Conducting..... | 2 |
| GMUS-1000 Music Philosophy and Aesthetics..... | 1 |
| GMUS-1030 Recital and Program Attendance..... | 0 |
| HLMU-2100 Jazz History: Music of the Multi-Culture | 2 |
| (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 |
| THMU-4110 Form and Analysis | 3 |
| Select one of the following | 2 |
| CDMU-3610 Choral Conducting | 2 |
| CDMU-3620 Instrumental Conducting | 2 |
| Music Contexts | 9 |
| HLMU-2310 Introduction to Music Literature | 3 |
| 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 |
| PFLM-3100–3980 Large Ensemble | 6 |
| PLMU-1000/4830 Private Lessons (in major instrument) | 14 |
| PLMU-3900 Junior Recital..... | 1 |
| *PLMU-4900 Senior Recital..... | 1 |
| Choose one concentration from the following | 14 |
| Instrumental Concentration..... | 14 |
| MUED-3750 Instrumental Pedagogy | 2 |
| PFLM-3650 Chamber Ensemble (2 x 1 credit)..... | 2 |
| THMU-4130 Orchestration | 2 |
| Select one of the following | 1 |
| CLMU-2210 Brass Literature | 1 |
| CLMU-2220 Percussion Literature | 1 |
| CLMU-2230 String Literature | 1 |
| CLMU-2240 Woodwind Literature | 1 |
| Approved Electives | 7 |

Piano Concentration

CLMU-2300 Keyboard Literature 2

CLMU-2310 Collaborative Piano (6 x 1 credit)..... 6

Select one of the following

KPMU-2010 Keyboard Pedagogy I

KPMU-2020 Keyboard Pedagogy II..... 3

Approved Electives

3

Vocal Concentration.....

CLMU-1170, 1180 Diction for Singers I and II

4

CLMU-3120 Vocal Literature

3

CLMU-3130 Opera and Oratorio Literature.....

3

PFLM-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 Requirements

0–4

General Education Requirements.....

48–56

Performance 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 26.

Suggested Four-Year Curriculum for a Major in Vocal Performance

First Year:

| | |
|--|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| CLMU-2750 Performance Seminar (both semesters) | 0 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| GMUS-1000 Music Philosophy and Aesthetics | 1 |
| GMUS-1030 Recital and Program Attendance (both semesters)..... | 0 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| PFMU-XXXX Ensemble Performance | 2 |
| PLMU-XXXX Private Lessons | 2 |
| THMU-1210, 1220 Music Theory I and II..... | 6 |
| THMU-1310, 1320 Aural Skills I and II..... | 4 |
| LIT-2XXX Literature Elective | 3 |
| Quantitative Elective | 3 |
| Total | 32 |

Second Year:

| | |
|--|-----------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| CDMU-2600 Introduction to Conducting..... | 2 |
| CLMU-1170, 1180 Diction for Singers I and II..... | 4 |
| CLMU-2750 Performance Seminar (both semesters) | 0 |
| GMUS-1030 Recital and Program Attendance (both semesters)..... | 0 |
| HLMU-2100 Jazz History: Music of the Multi-Culture | 2 |
| (or HLMU-3400 Global Music | 3) |
| HLMU-2310 Introduction to Music Literature | 3 |
| PFMU-XXXX Ensemble Performance | 2 |
| PLMU-XXXX Private Lessons | 4 |
| THMU-2210, 2220 Music Theory III and IV | 6 |
| THMU-2310, 2320 Aural Skills III and IV | 4 |
| Total | 33 |

Third Year:

| | |
|--|-------------|
| BTGE-3755 Theology I..... | 3 |
| BTGE-3765 Theology II | 3 |
| CDMU-3620 Instrumental Conducting..... | 2 |
| (or CDMU-3610 Choral Conducting..... | 2) |
| CLMU-2750 Performance Seminar (both semesters) | 0 |
| CLMU-3120 Vocal Literature..... | 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 |
| MUED-3730 Vocal Pedagogy | 2 |
| PFMU-XXXX Ensemble Performance | 0 |
| PLMU-XXXX Private Lessons | 4 |
| PFMU-3850 Opera Ensemble | 1 |
| PLMU-3900 Junior Recital..... | 1 |
| Biology Elective | 3.5 |
| History Elective | 3 |
| Total | 34.5 |

Fourth Year:

| | |
|--|-------------|
| CLMU-2750 Performance Seminar (both semesters) | 0 |
| CLMU-2760 Performance Portfolio..... | 0 |
| CLMU-3130 Opera and Oratorio Literature | 3 |
| GMUS-1030 Recital and Program Attendance (both semesters)..... | 0 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| PFMU-XXXX Ensemble Performance | 2 |
| PFMU-3850 Opera Ensemble | 1 |
| PLMU-XXXX Private Lessons | 4 |
| PLMU-4900 Senior Recital | 1 |
| THMU-4110 Form and Analysis | 3 |
| Physical Science Elective | 3.5 |
| Social Science/Global Awareness Elective..... | 3 |
| Elective | 5 |
| Total | 28.5 |

A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Instrumental Performance

First Year:

| | |
|--|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| CLMU-2750 Performance Seminar (both semesters) | 0 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| GMUS-1000 Music Philosophy and Aesthetics | 1 |
| GMUS-1030 Recital and Program Attendance (both semesters)..... | 0 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| PFMU-XXXX Ensemble Performance | 2 |
| PLMU-XXXX Private Lessons | 2 |
| THMU-1210, 1220 Music Theory I and II..... | 6 |
| THMU-1310, 1320 Aural Skills I and II..... | 4 |
| LIT-2XXX Literature Elective | 3 |
| Quantitative Elective | 3 |
| Total | 32 |

Second Year:

| | |
|--|-----------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| CDMU-2600 Introduction to Conducting..... | 2 |
| CLMU-XXXX Instrumental Literature Elective | 1 |
| CLMU-2750 Performance Seminar (both semesters) | 0 |
| GMUS-1030 Recital and Program Attendance (both semesters)..... | 0 |
| HLMU-2100 Jazz History: Music of the Multi-Culture | 2 |
| (or HLMU-3400 Global Music | 3) |
| HLMU-2310 Introduction to Music Literature | 3 |
| PFMU-XXXX Ensemble Performance | 2 |
| PLMU-XXXX Private Lessons | 4 |
| THMU-2210, 2220 Music Theory III and IV | 6 |
| THMU-2310, 2320 Aural Skills III and IV | 4 |
| Total | 30 |

Third Year:

| | |
|--|-------------|
| BTGE-3755 Theology I..... | 3 |
| BTGE-3765 Theology II | 3 |
| CDMU-3620 Instrumental Conducting..... | 2 |
| (or CDMU-3610 Choral Conducting..... | 2) |
| CLMU-2750 Performance Seminar (both semesters) | 0 |
| GMUS-1030 Recital and Program Attendance (both semesters)..... | 0 |
| GSS-1100 Politics and American Culture..... | 3 |
| HLMU-3310, 3320 Music History I and II..... | 6 |
| MUED-3750 Instrumental Pedagogy | 2 |
| PFMU-XXXX Ensemble Performance | 0 |
| PFMU-XXXX Chamber Music | 2 |
| PLMU-XXXX Private Lessons | 4 |
| PLMU-3900 Junior Recital..... | 1 |
| Biology Elective | 3.5 |
| History Elective..... | 3 |
| Total | 32.5 |

Fourth Year:

| | |
|--|-------------|
| CLMU-2750 Performance Seminar (both semesters) | 0 |
| CLMU-2760 Performance Portfolio..... | 0 |
| GMUS-1030 Recital and Program Attendance (both semesters)..... | 0 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| PFMU-XXXX Ensemble Performance | 2 |
| PLMU-XXXX Private Lessons | 4 |
| PLMU-4900 Senior Recital | 1 |
| THMU-4110 Form and Analysis | 3 |
| THMU-4130 Orchestration..... | 2 |
| Music Elective | 7 |
| Physical Science Elective | 3.5 |
| Social Science/Global Awareness Elective..... | 3 |
| Elective | 5 |
| Total | 33.5 |

A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Piano Performance

First Year:

| | |
|--|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| CLMU-2750 Performance Seminar (both semesters) | 0 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| GMUS-1000 Music Philosophy and Aesthetics | 1 |
| GMUS-1030 Recital and Program Attendance (both semesters)..... | 0 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| PFMU-XXXX Ensemble Performance | 2 |
| PLMU-XXXX Private Lessons | 2 |
| THMU-1210, 1220 Music Theory I and II..... | 6 |
| THMU-1310, 1320 Aural Skills I and II..... | 4 |
| LIT-2XXX Literature Elective | 3 |
| Quantitative Elective | 3 |
| Total | 32 |

Second Year:

| | |
|--|-----------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| CDMU-2600 Introduction to Conducting..... | 2 |
| CLMU-2310 Collaborative Piano | 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-Culture | 2 |
| (or HLMU-3400 Global Music | 3) |
| HLMU-2310 Introduction to Music Literature | 3 |
| KPMU-2010 or 2020 Keyboard Pedagogy I or II..... | 3 |
| PFMU-XXXX Ensemble Performance | 2 |
| PLMU-XXXX Private Lessons | 4 |
| THMU-2210, 2220 Music Theory III and IV | 6 |
| THMU-2310, 2320 Aural Skills III and IV | 4 |
| Total | 34 |

Third Year:

| | |
|--|-------------|
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| CDMU-3620 Instrumental Conducting..... | 2 |
| (or CDMU-3610 Choral Conducting..... | 2) |
| CLMU-2300 Keyboard Literature | 2 |
| CLMU-2310 Collaborative Piano | 2 |
| CLMU-2750 Performance Seminar (both semesters) | 0 |
| GMUS-1030 Recital and Program Attendance (both semesters)..... | 0 |
| GSS-1100 Politics and American Culture..... | 3 |
| HLMU-3310, 3320 Music History I and II..... | 6 |
| PFMU-XXXX Ensemble Performance | 0 |
| PLMU-XXXX Private Lessons | 4 |
| PLMU-3900 Junior Recital..... | 1 |
| Biology Elective | 3.5 |
| History Elective | 3 |
| Total | 32.5 |

Fourth Year:

| | |
|--|-------------|
| CLMU-2310 Collaborative Piano | 2 |
| CLMU-2750 Performance Seminar (both semesters) | 0 |
| CLMU-2760 Performance Portfolio | 0 |
| GMUS-1030 Recital and Program Attendance (both semesters)..... | 0 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| PFMU-XXXX Ensemble Performance | 2 |
| PLMU-XXXX Private Lessons | 4 |
| PLMU-4900 Senior Recital | 1 |
| THMU-4110 Form and Analysis | 3 |
| Music Elective..... | 3 |
| Physical Science Elective | 3.5 |
| Social Science/Global Awareness Elective..... | 3 |
| Elective | 5 |
| Total | 29.5 |



Teacher Education Licensure Program Bachelor of Music Education

Statement of Purpose

The **Bachelor of Music Education** prepares students to teach vocal, instrumental, or general music in grades K–12 in public and Christian schools. Two tracks, choral and instrumental, are available. The Bachelor of Music Education will provide the graduate with all the skills, knowledge, and competencies prerequisite for state certification and employment in music education.

Program Objectives

After completing a degree in the music education program at Cedarville, the student will:

- Demonstrate mastery of the grade/age level content and pedagogy related to Multi-Age Music Education.
- Demonstrate the ability to plan, instruct and assess students in a classroom setting.
- Identify and recall current trends, curricula, and methodologies used in music education.
- Articulate a working philosophy of music education.

Because of the specific, sequential course requirements involved, completion of the program in four years requires extremely careful planning. Failure to take courses in their sequential order may result in a fifth year for degree completion. Students should plan to be enrolled in summer school classes at least one summer to complete course requirements in four years.

The following requirements involve 95–101 (choral track) or 96–102 (instrumental track) semester hours:

| | |
|---|--------------|
| Proficiencies | 0–6 |
| Piano..... | 0–4 |
| CLMU-1810 Piano Class I..... | 0–2 |
| CLMU-1820 Piano Class II..... | 0–2 |
| THMU-1010 Introduction to Music Theory and Aural Skills... .. | 0–2 |
| Music Foundation and Skills | 28–29 |
| CDMU-2600 Introduction to Conducting..... | 2 |
| GMUS-1000 Music Philosophy and Aesthetics..... | 1 |
| 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 |
| <i>Choral majors also add:</i> | |
| CDMU-3610 Choral Conducting | 2 |
| <i>Instrumental majors also add:</i> | |
| CDMU-3620 Instrumental Conducting | 2 |
| CLMU-1860 Voice Class | 1 |
| Music Contexts | 9 |
| HLMU-2310 Introduction to Music Literature | 3 |
| HLMU-3310, 3320 Music History I and II..... | 6 |
| Music Performance..... | 11 |
| PFMU-3100–3980 Large Ensemble | 2 |
| PLMU-1000/4830 Private Lessons | 8 |
| PLMU-4900 Senior Recital | 1 |
| Teacher Education | 46 |
| Teacher Education Program Pre-requisites | 11 |
| EDSP-2100 Exceptionalities and Behavior | 2 |
| EDUC-1000 The Education Profession | 2 |
| EDUC-2050 Teaching Diverse Learners | 2 |
| EDUC-2300 Assessment and Differentiation | 2 |
| EDUC-2500 Educational Psychology..... | 3 |

Professional Program Requirements.....

| | |
|---|---|
| EDSE-3900 Music Education Field Experience | 2 |
| EDUC-3100 Philosophical Foundations of Education..... | 3 |
| EDUC-4000 Reading and Writing in the Disciplines: AYA and Multi-Age | 3 |
| GMUS-1030 Recital and Program Attendance | 0 |
| MUED-1000 NAFME | 0 |
| MUED-3710 Music for Early Childhood..... | 3 |
| MUED-3720 Music for Adolescent/Young Adult | 3 |

Choral majors also add:

| | |
|---|---|
| CLMU-1170 or 1180 Diction for Singers I or II | 2 |
| CDMU-3630 Choral Methods..... | 2 |
| MUED-2730 Wind and Percussion Methods for Music Educators | 2 |
| MUED-2900 Guitar Methods for Music Educators | 1 |
| MUED-3730 Vocal Pedagogy | 2 |

Instrumental majors also add:

| | |
|--|----------|
| MUED-3910 Instrumental Administration | 3 |
| Three of the following | 6 |
| MUED-2870 Brass Methods for Music Educators..... | 2 |
| MUED-2910 Woodwind Methods for Music Educators | 2 |
| MUED-2930 String Methods for Music Educators | 2 |
| MUED-2950 Percussion Methods for Music Educators | 2 |

| | |
|---|----|
| Capstone..... | 12 |
| EDSE-4900 Student Teaching and Seminar: AYA | 12 |

Music Education (Multi-Age) — Choral Major Curriculum Summary

| | |
|---|------------|
| General Education Proficiency Requirements | 0–4 |
| General Education Requirements..... | 48–56 |
| Music Education — Choral Professional Content | 94–100 |
| Total (minimum, not including proficiency) | 142 |

Music Education (Multi-Age) — Instrumental Major Curriculum Summary

| | |
|---|------------|
| General Education Proficiency Requirements | 0–4 |
| General Education Requirements..... | 48–56 |
| Music Education — Instrumental Professional Content | 95–101 |
| Total (minimum, not including proficiency) | 143 |



A complete description of the general education requirements is found on page 26.

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

First Year:

| | |
|--|---|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| EDUC-1000 The Education Profession..... | 2 |
| EDUC-1050 Preliminary Student Involvement..... | 0 |
| ENG-1400 Composition..... | 3 |
| GMUS-1000 Music Philosophy and Aesthetics | 1 |
| GMUS-1030 Recital and Program Attendance (both semesters)..... | 0 |
| MUED-1000 NAfME (both semesters)..... | 0 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| PFMU-XXXX Ensemble Performance | 2 |
| PLMU-XXXX Private Lessons | 2 |
| THMU-1210, 1220 Music Theory I and II..... | 6 |
| THMU-1310, 1320 Aural Skills I and II..... | 4 |
| Quantitative Elective..... | 3 |

Choral Majors Add:

| | |
|--|-----------|
| CLMU-1170 or 1180 Diction for Singers I or II..... | 2 |
| MUED-2900 Guitar Methods for Music Educators..... | 1 |
| Choral Total | 34 |

Instrumental Majors Add:

| | |
|--|-----------|
| MUED-XXXX Instrumental Methods Electives | 4 |
| Instrumental Total | 35 |

Second Year:

| | |
|--|-----------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| CDMU-2600 Introduction to Conducting..... | 2 |
| EDSP-2100 Exceptionalities and Behavior..... | 2 |
| EDUC-2050 Teaching Diverse Learners..... | 2 |
| EDUC-2300 Assessment and Differentiation..... | 2 |
| EDUC-2500 Educational Psychology | 3 |
| GMUS-1030 Recital and Program Attendance (both semesters)..... | 0 |
| HLMU-3400 Global Music | 3 |
| HLMU-2310 Introduction to Music Literature | 3 |
| MUED-1000 NAfME (both semesters)..... | 0 |
| PFMU-XXXX Ensemble Performance | 0 |
| PLMU-XXXX Private Lessons | 2 |
| THMU-2210, 2220 Music Theory III and IV | 6 |
| THMU-2310, 2320 Aural Skills III and IV | 4 |
| Total | 35 |

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-XXXX Ensemble Performance | 0 |
| PLMU-XXXX Private Lessons | 2 |
| History Elective..... | 3 |
| LIT-2XXX Literature Elective..... | 3 |

Choral Majors Add:

| | |
|-----------------------------------|-----------|
| CDMU-3610 Choral Conducting | 2 |
| CDMU-3630 Choral Methods | 2 |
| Choral Total | 35 |

Instrumental Majors Add:

| | |
|--|-----------|
| CDMU-3620 Instrumental Conducting..... | 2 |
| MUED-3910 Instrumental Administration..... | 3 |
| Instrumental Total | 36 |

Summer:

| | |
|--|---|
| EDUC-4000 Reading and Writing in the Disciplines: AYA and Multi-Age .. | 3 |
|--|---|

Fourth year:

| | |
|--|-----|
| 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 Methods for Music Educators..... | 2 |
| MUED-3730 Vocal Pedagogy | 2 |
| Choral Total | 35 |

Instrumental Majors Add:

| | |
|---|-----------|
| CLMU-1860 Voice Class..... | 1 |
| MUED-XXXX Instrumental Methods Elective | 2 |
| Instrumental Total | 34 |





Worship

The **Bachelor of Arts in worship degree** is an interdisciplinary degree designed to help prepare students who are interested in careers in worship leadership and related fields. The mission of the worship program is “Equipping Worshipers to Serve.” Core values of the BA in worship degree include:

Musical Emphasis

We value a core musical background for all worship students. We value contemporary music as the voice of our culture and will equip students to be musically and methodologically relevant in the “real world.”

Theological Foundation

We value a strong theological foundation, grounded in biblical truth for all worship students. The Bible minor and required classes will emphasize a biblical foundation for worship ministry.

Interdisciplinary Nature

We value interdisciplinary study in fields related to worship ministry. We value each student developing God-given talents and interests, resulting in an individualized degree tailored for each student.

Elective hours can be used to complete minors or to double major. Students pursuing this major must complete the general education core.

Program Objectives

Through the worship curriculum, students will be able to:

- Demonstrate an understanding of music theory by mastery of music theory concepts and analysis of contemporary music.
- Perform proficiently in voice and either piano or guitar in a worship setting.
- Formulate and articulate a theology of worship based on sound biblical principles and valid biblical interpretation.
- Evaluate and critique the content and appropriateness of any worship medium (music, drama, media, etc.) by employing one’s theology of worship as a foundation for evaluation.
- Plan, produce, and lead theologically sound and edifying corporate worship experiences for the local church or parachurch organization.

The following requirements involve 59–66 semester hours:

Music 14–21

Proficiencies (voice, either piano or guitar, and

| | |
|-------------------------------|-----|
| Theory/Aural Skills | 0–7 |
| CLMU-1860 Voice Class | 0–1 |
| Piano..... | 0–4 |
| CLMU-1810 Piano Class I..... | 0–2 |
| CLMU-1820 Piano Class II..... | 0–2 |

OR

PLMU-1830 Contemporary Guitar0–2

THMU-1010 Introduction to Music Theory and

 Aural Skills.....0–2

PLMU-1000–4830 Private Lessons6

PFMU-3100–3980 Large Ensembles.....2

THMU-1250 Contemporary Musicianship I.....2

THMU-2250 Contemporary Musicianship II

THMU-2260 Contemporary Musicianship III

Worship 21

WSHP-1010 Introduction to Worship Ministry1

WSHP-1020 Introduction to Worship Technology2

WSHP-2060 Music and the Arts in Worship3

WSHP-2100 Worship Forum (every semester)0

WSHP-2200 Worship Field Experience1

WSHP-3100 Worship Practicum2

WSHP-3200 Worship Administration3

WSHP-4900 Worship Internship9

Theology 12

BTOT-3140 Psalms 3

*BTHT-3340 Christian Theology 1: Bible, Trinity, God

the Father..... 3

or BTHT-3350 Christian Theology 2: God the Son and

God the Spirit 3

or BTHT-3360 Christian Theology 3: Humanity, Angels,

and Salvation 3

or BTHT-3370 Christian Theology 4: The Church and

Last Things 3

BTAT-3410 Discipleship..... 3

or BTAT-3400 Biblical Care and Counseling.....3

BTAT-3730 Theology of Worship 3

*The dual-listed 6000-level courses can be used by approval for the undergraduate students.

Specified Electives 12

Students are required to take 12 class hours in fields that would be helpful in combination with worship studies. The specified fields are: business administration; Christian education; Christian ministries management; communication studies; broadcasting, digital media, and journalism; missions; music; philosophy and religion; preseminary; psychology; and theatre. Students must take at least six of these 12 hours outside of the Department of Music and Worship.

Worship Major Curriculum Summary

Proficiency Requirements0–7

General Education Requirements.....51–59

Worship Major Requirements59–66

Electives3–18

Total (minimum, not including proficiency) 128



A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Worship

First Year:

| | |
|--|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| PFMU-XXXX Large Ensemble Performance | 2 |
| PLMU-XXXX Private Lessons | 2 |
| THMU-1250 Contemporary Musicianship I..... | 2 |
| WSHP-1010 Introduction to Worship Ministry | 1 |
| WSHP-1020 Introduction to Worship Technology | 2 |
| WSHP-2100 Worship Forum (both semesters)..... | 0 |
| LIT-2XXX Literature Elective | 3 |
| Electives | 6 |
| Total | 32 |

Second Year:

| | |
|--|-----------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| PFMU-XXXX Ensemble Performance | 0 |
| PLMU-XXXX Private Lessons | 2 |
| THMU-2250 Contemporary Musicianship II | 2 |
| THMU-2260 Contemporary Musicianship III | 2 |
| WSHP-2060 Music and the Arts in Worship | 3 |
| WSHP-2100 Worship Forum (both semesters)..... | 0 |
| WSHP-2200 Worship Field Experience | 1 |
| Quantitative Elective | 3 |
| Social Science/Global Awareness Elective | 3 |
| Elective | 7 |
| Total | 32 |

Third Year:

| | |
|--|-----------|
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| BTAT-3410 Discipleship | 3 |
| (or BTAT-3400 Biblical Care and Counseling | 3) |
| BTAT-3730 Theology of Worship | 3 |
| PFMU-XXXX Ensemble Performance | 0 |
| PLMU-XXXX Private Lessons | 2 |
| WSHP-2100 Worship Forum (both semesters)..... | 0 |
| WSHP-3100 Worship Practicum | 2 |
| WSHP-3200 Worship Administration | 3 |
| History Elective | 3 |
| Specified Electives..... | 9 |
| Total | 31 |

Fourth Year:

| | |
|---|-----------|
| BTOT-3140 Psalms..... | 3 |
| BTHT-33XX Christian Theology..... | 3 |
| PFMU-XXXX Ensemble Performance | 0 |
| WSHP-2100 Worship Forum (both semesters)..... | 0 |
| WSHP-3100 Worship Practicum | 0 |
| WSHP-4900 Worship Internship | 9 |
| Biology Elective | 3.5 |
| Humanities Elective | 3 |
| Physical Science Elective | 3.5 |
| Specified Electives..... | 3 |
| Electives | 5 |
| Total | 33 |

Suggested Three-Year Curriculum for a Major in Worship

Fall Year 1:

| | |
|--|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| ENG-1400 Composition..... | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| PFMU-XXXX Ensemble Performance | 1 |
| PLMU-XXXX Private Lessons | 1 |
| WSHP-1010 Introduction to Worship Ministry | 1 |
| WSHP-2100 Worship Forum..... | 0 |
| Electives | 3 |
| Total | 15 |

Spring Year 1:

| | |
|--|-----------|
| BTGE-2730 Old Testament Literature..... | 3 |
| LIT-2XXX Literature Elective | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| PFMU-XXXX Ensemble Performance | 1 |
| PLMU-XXXX Private Lessons | 1 |
| THMU-1250 Contemporary Musicianship I..... | 2 |
| WSHP-2100 Worship Forum..... | 0 |
| Electives | 5 |
| Total | 17 |

Summer Year 1:

| | |
|--|-------------|
| BTGE-2740 New Testament Literature | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| Physical Science Elective | 3.5 |
| Quantitative Elective | 3 |
| Social Science/Global Awareness Elective | 3 |
| Total | 15.5 |

Fall Year 2:

| | |
|--|-----------|
| BTGE-3755 Theology I | 3 |
| PFMU-XXXX Performance Ensemble | 0 |
| PLMU-XXXX Private Lessons | 2 |
| THMU-2250 Contemporary Musicianship II | 2 |
| WSHP-1020 Introduction to Worship Technology | 2 |
| WSHP-2060 Music and the Arts in Worship | 3 |
| WSHP-2100 Worship Forum..... | 0 |
| WSHP-2200 Worship Field Experience | 1 |
| Specified Electives..... | 3 |
| Total | 16 |

Spring Year 2:

| | |
|--|-----------|
| BTAT-3410 Discipleship | 3 |
| (or BTAT-3400 Biblical Care and Counseling | 3) |
| BTAT-3730 Theology of Worship | 3 |
| BTGE-3765 Theology II | 3 |
| PFMU-XXXX Ensemble Performance | 0 |
| PLMU-XXXX Private Lessons | 2 |
| THMU-2260 Contemporary Musicianship III | 2 |
| WSHP-2100 Worship Forum..... | 0 |
| WSHP-3200 Worship Administration | 3 |
| Total | 16 |

Summer Year 2:

| | |
|---|-------------|
| GSS-1100 Politics and American Culture..... | 3 |
| Biology Elective | 3.5 |
| History Elective | 3 |
| Humanities Elective | 3 |
| Elective | 3 |
| Total | 15.5 |



| | |
|--|-----------|
| <i>Fall Year 3:</i> | |
| BTHT-33XX Biblical History and Theology Elective | 3 |
| BTOT-3140 Psalms..... | 3 |
| PFMU-XXXX Ensemble Performance | 0 |
| WSHP-2100 Worship Forum..... | 0 |
| WSHP-3100 Worship Practicum | 1 |
| Specified Elective | 9 |
| Total | 16 |
| <i>Spring Year 3:</i> | |
| PFMU-XXXX Ensemble Performance | 0 |
| WSHP-2100 Worship Forum..... | 0 |
| WSHP-3100 Worship Practicum | 1 |
| WSHP-4900 Worship Internship | 9 |
| Electives | 7 |
| Total | 17 |

NOTE: Students must meet proficiencies for program. Proficiencies (voice, piano or guitar, and theory/aural skills = 0–7)

Graduate Program Pathway Option for Worship

The Bachelor of Arts in worship program offers accelerated pathways to the Master of Business Administration degree, the Master of Arts in Worship and Theology, and the Advanced Master of Divinity degree. You may view a sample curriculum plan at cedarville.edu/gradpathways.



Minors

Music Minor

The **music minor** allows students with interests and abilities in music to build upon this background through formal music instruction. Students who minor in music should begin the program no later than their sophomore year.

Course requirements involve 16 semester hours.

| | |
|--|---|
| CDMU-2600 Introduction to Conducting | 2 |
| GMUS-1030 Recital and Program Attendance (2 semesters) | 0 |
| HUM-2430 Enjoyment of Music | 3 |
| PFMU-3100-3980 Large Ensemble | 2 |
| PLMU-1000/4830 Private Lessons | 2 |
| *THMU-1010 Introduction to Music Theory | 2 |
| *THMU-1210 Music Theory I | 3 |
| *THMU-1310 Aural Skills I | 2 |

*Students in this minor are required to take these classes prior to private lessons.

Music Technology Minor

The **music technology minor** gives students important skills in digital music applications, including audio recording and editing, MIDI, digital live performance, synthesis, and composition for media.

Course requirements involve 16–17 semester hours.

| | |
|--|---|
| THMU-1010 Introduction to Music Theory | 2 |
| THMU-1210 Music Theory I | 3 |
| Or THMU-1250 Contemporary Musicianship I | 2 |
| TYMU-2510 Introduction to Digital Music Production | 3 |
| TYMU-2520 Music Production Techniques | 3 |
| TYMU-3510 Electronic Music Production | 3 |
| TYMU-3520 Scoring for Digital Media | 3 |

Songwriting Minor

The **songwriting minor** is designed to allow students to explore the process of songwriting. Courses will address the skills and craft of songwriting, the management, marketing, and explore the legal complexities of the song writing industry.

Course requirements involve 19 semester hours:

| | |
|---|---|
| SWMU-2100 Fundamentals of Songwriting | 3 |
| SWMU-2500 Worship Songwriting | 3 |
| SWMU-3100 Professional Aspects of Songwriting | 3 |
| SWMU-4900 Senior Songwriting Seminar | 1 |
| THMU-1210 Music Theory I | 3 |
| or THMU-1250 Contemporary Musicianship I | 2 |
| TYMU-2510 Intro to Digital Music Production | 3 |
| TYMU-2520 Music Production Techniques | 3 |

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.

| | |
|---|---|
| BTAT-3730 Theology of Worship | 3 |
| PLMU-1810, 1820, or 1830 Private Lessons | 2 |
| THMU-1010 Introduction to Music Theory and Aural Skills | 2 |
| THMU-1250 Contemporary Musicianship I | 2 |
| WSHP-1010 Introduction to Worship Ministry | 1 |
| WSHP-1020 Introduction to Worship Technology | 2 |
| WSHP-2060 Music and the Arts in Worship | 3 |
| WSHP-2100 Worship Forum (two semesters) | 0 |

Dr. Trent Rogers, *Dean*

Biblical and Theological Studies..... 103

Majors

| | |
|--|-----|
| Biblical Studies..... | 106 |
| Biblical Studies — Accelerated BA/Master of Divinity | 109 |

Minors

| | |
|--|-----|
| Bible Minor | 110 |
| Biblical Care and Counseling Minor | 110 |
| Bible Teacher Education Minor | 110 |
| Christian Ministry Minor | 110 |
| Greek Minor | 110 |
| Missions Minor | 110 |
| Pastoral Ministry Minor..... | 110 |
| Philosophy and Theology Minor..... | 111 |
| Preseminary Minor..... | 111 |
| Pre-Master of Divinity Minor..... | 111 |
| Women's Ministry Minor..... | 111 |
| Youth Ministry Minor..... | 111 |

Special Program

| | |
|------------------------------|-----|
| One-Year Bible Program | 110 |
|------------------------------|-----|



Biblical and Theological Studies

Mission Statement

Our Lord Jesus Christ commissioned His followers to “go and make disciples of all nations, baptizing them ... and teaching them to observe all that I commanded you ...” (Matt. 28:19). The Apostle Paul is an example of how the early believers embraced this mission and carried it forward. “We proclaim him (Christ),” Paul declared, “admonishing every man and teaching every man with all wisdom, so that we may present every man complete in Christ” (Col. 1:28). Indeed, over the centuries there is an unbroken chain of 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 share in the goals of biblical and theological proficiency with an expression in ministry.

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

Programs of Study

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

Majors

- Biblical Studies
- Biblical Studies — Accelerated BA/Master of Divinity

Minors

- Bible
- Bible Teacher Education
- Biblical Care and Counseling
- Christian Ministry
- Greek
- Missions
- Pastoral Ministry
- Philosophy and Theology
- Pre-Master of Divinity
- Preseminary
- Women’s Ministry
- Youth Ministry

Special Program

- One-Year Bible Program

Students majoring in biblical studies must choose at least one concentration from the following:

- Biblical counseling
- Biblical languages
- Biblical literature
- Historical theology
- Missions
- Philosophy and theology
- Teaching ministry
- Theology
- Women’s ministry
- Worship
- Youth and family ministry

Personal Requirements

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

School Requirements

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

Technical Resources

- Textbook-specific software
- Course-specific software





Center for Biblical Integration

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

Cocurricular Opportunities

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

Alpha Sigma

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

Theta Alpha Kappa

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

Career Opportunities

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

- Bible Teacher
- Biblical Counselor
- Camp Director
- Children's Director
- Christian Education Director
- Missionary
- Pastor
- Writer
- Youth Pastor



Faculty

Trent Rogers, *Dean; Assistant Professor of New Testament and Greek. Education: BA, Wabash College, 2007; MDiv, Trinity Evangelical Divinity School, 2010; PhD, Loyola University (Chicago), 2015. At Cedarville since 2018.*

Jonathan Arnold, *Associate Dean; Associate Professor of Theological Studies. Education: BA, Sewanee; The University of the South, 2001; ThM, Dallas Theological Seminary, 2005; MSt, University of Oxford, 2007; D.Phil., University of Oxford, 2010. At Cedarville since 2022.*

William M. Marsh, *Director of the Master of Divinity Program; Associate Professor of Theological Studies. Education: BA, North Greeneville University, 2004; MDiv, Southwestern Baptist Theological Seminary, 2008; PhD, Southwestern Baptist Theological Seminary, 2014. At Cedarville since 2013.*

J. Michael McKay, *Director of Master of Ministry and Master of Arts Programs; Associate Professor of Biblical Theology. Education: BA, New Tribes Mission, 2004; MA, Grace Theological Seminary, 2008; PhD, Southwestern Baptist Theological Seminary, 2016. At Cedarville since 2017.*

Matthew Bennett, *Associate Professor of Missions and Theology. Education: BA, Winona State University; MA, Southeastern Baptist Theological Seminary; MDiv, Southeastern Baptist Theological Seminary, 2012; PhD, Southeastern Baptist Theological Seminary, 2017. At Cedarville since 2017.*

Zachary Bowden, *Chief of Staff; Assistant Professor of Theological Studies. Education: BA, Texas A&M University-Corpus Christi, 2006; MDiv, Southwestern Baptist Theological Seminary, 2010; PhD, Southwestern Baptist Theological Seminary, 2016. At Cedarville since 2013.*

Joshua Bowman, *Assistant Professor of Missions and Theology. Education: BA, Jacksonville University, 1998; MDiv, The Southern Baptist Theological Seminary, 2002; PhD, Southeastern Baptist Theological Seminary, 2019. At Cedarville since 2019.*

Gregory Couser, *Senior Professor of Bible and Greek. Education: BS, Liberty University, 1981; MDiv, Liberty Baptist Theological Seminary, 1985; MA, Liberty University, 1988; PhD, University of Aberdeen (Scotland), 1993. At Cedarville since 1994.*

Paul Dixon, *Chancellor; Professor of Bible. Education: BA, Tennessee Temple University, 1961; MDiv, Temple Baptist Theological Seminary, 1964; DD, Tennessee Temple University, 1978; LLD, Liberty University, 1984; EdD, The University of Cincinnati, 1986. At Cedarville since 1978.*

Scott Dixon, *Associate Professor of Bible. Education: BA, Cedarville University, 1984; ThM, Dallas Theological Seminary, 1989; PhD, Michigan State University, 2001. At Cedarville since 1997.*

Daniel Estes, *Distinguished Professor of Old Testament. Education: BA, Cedarville University, 1974; ThM, Dallas Theological Seminary, 1978; PhD, Cambridge University (England), 1988. At Cedarville since 1984.*

Jarrett Ford, *Assistant Professor of New Testament and Theology. Education: BS, Oklahoma State University, 2012; MDiv, The Southern Baptist Theological Seminary, 2017; PhD, The Southern Baptist Theological Seminary, 2022. At Cedarville since 2023.*

John R. Gilhooley, *Associate Professor of Philosophy and Theology, Director of the Honors Program. Education: BA, Texas A&M University, 2008; MTh, University of Dallas, 2011; PhD, Southwestern Baptist Theological Seminary, 2014. At Cedarville since 2013.*

Thomas Hutchison, *Professor of Educational Ministries and Applied Theology. Education: BA, Cedarville University, 1980; MDiv, Grand Rapids Baptist Seminary, 1985; PhD, Marquette University, 1997. At Cedarville since 1995.*



Jeremy Kimble, Director, *The Synergy Initiative*; Associate Professor of Theology. *Education:* BS Baptist Bible College, 2002; MDiv, Winebrenner Theological Seminary, 2008; PhD, Southeastern Baptist Theological Seminary, 2013. At Cedarville since 2013.

Joshua Kira, Associate Professor of Philosophy and Theology. *Education:* BA, The Master's College, 2001; STM, Yale Divinity School, 2010; PhD Claremont Graduate University, 2016. At Cedarville since 2014.

Ronni Kurtz, Assistant Professor of Theology. *Education:* BA, Southwest Baptist University, 2014; MDiv, Midwestern Baptist Theological Seminary, 2017; ThM, Midwestern Baptist Theological Seminary, 2020; PhD, Midwestern Baptist Theological Seminary, 2021. At Cedarville since 2022.

Jason K. Lee, Director for the Center of Biblical Integration; Professor of Theological Studies. *Education:* BA, University of Mobile, 1991; MDiv, New Orleans Baptist Theological Seminary, 1993; PhD, University of Aberdeen (U.K.), 1999. At Cedarville since 2013.

Marcus R. Leeds, Associate Vice President for Academics, Associate Professor of Theology. *Education:* BS, Texas A&M University, 1996; MDiv, Southeastern Baptist Theological Seminary, 2000; PhD, Southeastern Baptist Theological Seminary, 2005. At Cedarville since 2021.

Randall L. McKinion, Professor of Old Testament. *Education:* BS, University of South Alabama, 1998; MDiv, The Master's Seminary, 2001; PhD, Southeastern Baptist Theological Seminary, 2006. At Cedarville since 2014.

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

Jeremy Oliver, Assistant Professor of Applied Theology. *Education:* BA, Indiana University, 2004; MA, Valparaiso University, 2005; MDiv, Faith Bible Seminary, 2010; PhD, Midwestern Baptist Theological Seminary, ABD. At Cedarville since 2022.

Mark Owens, Assistant Professor of New Testament Theology. *Education:* BS, University of Georgia, 1998; MDiv, Southeastern Baptist Theological Seminary, 2003; ThM, Southeastern Baptist Theological Seminary, 2006; PhD, University of Aberdeen, 2012. At Cedarville since 2016.

Erin M. Shaw, Director of Women's Ministry; Assistant Professor of Women's Ministry. *Education:* BS, University of Florida, 2002; MDiv, Southeastern Baptist Theological Seminary, 2005; EdD, Southern Baptist Theological Seminary, 2018. At Cedarville since 2014.

Michael Shepherd, Professor of Biblical Studies. *Education:* BFA, New School University (NYC), 2000; MDiv, Southeastern Baptist Theological Seminary, 2004; PhD, Southeastern Baptist Theological Seminary, 2006. At Cedarville since 2015.

Brandon D. Smith, Assistant Professor of Theology and New Testament. *Education:* BA, Dallas Baptist University, 2012; MA, Criswell College, 2015; PhD, Ridley College, 2020. At Cedarville since 2019.

Ched Spellman, Associate Professor of Biblical and Theological Studies, Lead Developer of Online Bible. *Education:* BA, Stephen F. Austin State University, 2004; MDiv, Southwestern Baptist Theological Seminary, 2008; PhD, Southwestern Baptist Theological Seminary, 2012. At Cedarville since 2013.

Joy White, Assistant Professor of Women's Studies. *Education:* BS, University of Florida, 1997; MDiv, Southeastern Baptist Theological Seminary, 2002; ThM, Southeastern Baptist Theological Seminary, 2011. At Cedarville since 2013.

Thomas White, University President; Professor of Systematic Theology. *Education:* BA, Anderson University, 1997; MDiv, Southeastern Baptist Theological Seminary, 2001; PhD, Southeastern Baptist Theological Seminary, 2005. At Cedarville since 2013.

Jonathan Wood, Vice President for Student Life and Christian Ministries; Assistant Professor of Theological Studies. *Education:* BA, University of Oklahoma, 2003; MDiv, Southwestern Baptist Theological Seminary, 2007; PhD, Southwestern Baptist Theological Seminary, 2016. At Cedarville since 2013.

Emeritus

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





Biblical Studies

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

Course requirements involve 88–90 semester hours including:

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

Biblical Studies requirements 70–72

| | |
|---|-----------|
| Biblical Studies — Year 1 (same as BA/MDiv)..... | 4 |
| BTAT-2400 Introduction to Evangelism..... | 3 |
| BTBS-1000 Introduction to Biblical Studies..... | 1 |
| BTBS-2020 Biblical Research Methods | 0 |
| Biblical Studies — Year 2 (same as BA/MDiv)..... | 11 |
| BTAT-3200 Introduction to Missions:Theology and History | 3 |
| ¹ BTBL-2510 Elementary Greek I | 4 |
| ¹ BTBL-2520 Elementary Greek II..... | 4 |

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

Biblical Studies — Year 3 27

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

*Students intending to continue in BA/MDiv accelerated program should take BTBL-3510 Intermediate Greek and BTBL-4110 Greek Syntax and Exegesis in Year 3.

| | |
|---|-----------|
| Completing Undergraduate Biblical Studies degree only — Year 4 | 30 |
| BTNT-3130 New Testament 3: Pauline Literature..... | 3 |
| BTNT-3140 New Testament 4: Johannine Literature | 3 |
| BTOT-3310 Old Testament 3: Latter Prophets | 3 |
| BTOT-3410 Old Testament 4: Writings..... | 3 |
| ¹ Concentration | 18 |

*Capstone Course

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

Biblical counseling concentration

| | |
|--|---|
| BTAT-3400 Biblical Care and Counseling..... | 3 |
| BTAT-3410 Discipleship..... | 3 |
| BTAT-3430 Interpersonal and Crisis Counseling..... | 3 |
| BTCM-3510 Small Group Ministry | 3 |
| Choose one from the following | 3 |
| BTCM-3520 Counseling and Mentoring Women..... | 3 |
| BTCM-3560 Counseling and Mentoring Men..... | 3 |
| *BTAT-4710 Ministry Internship | 3 |

*This capstone course for the Biblical Counseling Concentration is a mentored experience focusing on the development of the student in a ministry capacity. It requires a minimum of eight weeks of supervised ministry.

Biblical languages concentration

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

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

Biblical literature concentration

| | |
|--|---|
| *BTBS-4850 Senior Seminar..... | 3 |
| BTHT-4100 Biblical Theology..... | 3 |
| Choose two from the following | 6 |
| BTBL-3510 Intermediate Greek I..... | 3 |
| and BTBL-3520 Intermediate Greek II | 3 |
| BTBL-3610 Biblical Hebrew Grammar and Syntax I..... | 3 |
| and BTBL-3620 Biblical Hebrew Grammar and Sytax II | 3 |

Choose two from the following

| | |
|---|-----|
| BTNT-4990 Selected Studies in the New Testament..... | 3–6 |
| BTOT-3140 Psalms | 3 |
| BTOT-4990 Selected Studies in the Old Testament | 3–6 |

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

Historical theology concentration

| | |
|---|---|
| *BTBS-4850 Senior Seminar..... | 3 |
| BTHT-3500 Historical Theology | 3 |
| Choose three from the following | 9 |
| BTHT/HIST-3050 Renaissance and Reformation Europe | 3 |
| BTHT/HIST-3310 American Church History | 3 |
| BTHT-4220 Early Christian Thought | 3 |
| BTHT-4320 Contemporary Theology in Historical Context..... | 3 |
| Choose one from the following | 3 |
| BTHT-3360 Christian Theology 3: Humanity Angels, and Salvation | 3 |
| BTHT-3370 Christian Theology 4: The Church and Last Things | 3 |
| BTHT-4990 Topics in Theology | 3 |

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

**Missions concentration**

| | |
|---|---|
| BTAT-3450 Contemporary World Missions..... | 3 |
| BTAT-3470 Cross-Cultural Ministry | 3 |
| BTAT-3250 Church Planting | 3 |
| *BTAT-4720 Cross-Cultural Missionary Internship | 3 |
| BTHT-4300 Global Theology | 3 |
| Choose one from the following | 3 |
| BTPA-2260 World Religions | 3 |
| BTPA-3250 Philosophy of Religion..... | 3 |

*This capstone course for the Missions concentration is a cross-cultural experience which focuses on the development of the student. It requires a minimum of eight weeks living in another culture and is usually done between the student's junior and senior year.

Philosophy and theology concentration

| | |
|--|---|
| BTBS-4850 Senior Seminar | 3 |
| BTPA-2240 Logic | 3 |
| BTPA-2250 Ethics..... | 3 |
| BTPA-3450 Biblical Apologetics..... | 3 |
| BTPA-3250 Philosophy of Religion | 3 |
| or (BTHT-4320 Contemporary Theology in Historical Context....) | 3 |
| BTHT/BTPA Elective..... | 3 |

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

Teaching ministry concentration

| | |
|--|---|
| BTAT/BTCM 4300 Teaching Ministry of the Church..... | 3 |
| BTAT-3410 Discipleship..... | 3 |
| *BTAT-4710 Ministry Internship | 3 |
| BTCM-2050 Foundations for Ministry | 1 |
| BTCM-3725 Adult Ministries | 3 |
| BTCM-4350 Teaching Lab | 2 |
| Choose one from the following | 3 |
| BTCM-3510 Small Group Ministry | 3 |
| BTCM-3685 Children's Ministries..... | 3 |
| BTCM-3705 Youth Ministries..... | 3 |
| BTCM-4100 Leadership in Christian Education Ministries.... | 3 |

*This capstone course for the Teaching Ministry concentration is a mentored experience which focuses on the development of the student in a ministry capacity. It requires a minimum of eight weeks of supervised ministry.

Theology concentration

| | |
|--|---|
| *BTBS-4850 Senior Seminar..... | 3 |
| BTHT-3360 Christian Theology 3: Humanity, Angels, and Salvation | 3 |
| BTHT-3370 Christian Theology 4: The Church and Last Things..... | 3 |
| BTHT-3500 Historical Theology | 3 |
| BTHT-4100 Biblical Theology..... | 3 |
| Choose one from the following | 3 |
| BTHT-3740 Biblical Theology of Womanhood | 3 |
| BTHT-4300 Global Theology | 3 |
| BTHT-4320 Contemporary Theology in Historical Context.... | 3 |
| BTHT-4990 Topics in Theology | 3 |

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

Women's ministry concentration

| | |
|--|---|
| BTAT-3480 Women's Communication for Ministry..... | 3 |
| *BTAT-4710 Ministry Internship | 3 |
| Choose one from the following | 3 |
| BTAT-3410 Discipleship | 3 |
| BTCM-3510 Small Group Ministry | 3 |
| BTCM-3520 Counseling and Mentoring Women | 3 |
| BTCM-3530 Contemporary Ministry to Women and Girls | 3 |
| BTHT-3740 Biblical Theology of Womanhood..... | 3 |

*This capstone course for the Women's Ministry concentration is a mentored experience which focuses on the development of the student in a ministry capacity. It requires a minimum of eight weeks of supervised ministry.

Worship concentration

| | |
|---|---|
| BTAT-3730 Theology of Worship | 3 |
| *BTAT-4710 Ministry Internship | 3 |
| PLMU-1810,1820, or 1830 Private Lessons | 2 |
| THMU-1010 Introduction to Music Theory and Aural Skills | 2 |
| THMU-1250 Contemporary Musicianship 1..... | 2 |
| WSHP-1010 Introduction to Worship Ministry | 1 |
| WSHP-1020 Introduction to Worship Technology | 2 |
| WSHP-2060 Music and the Arts in Worship | 3 |
| WSHP-2100 Worship Forum (two semesters) | 0 |

*This capstone course for the Worship concentration is a mentored experience which focuses on the development of the student in a ministry capacity. It requires a minimum of eight weeks of supervised ministry.

Youth and family ministry concentration

| | |
|---|---|
| BTAT/BTCM-4300 Teaching Ministry of the Church..... | 3 |
| *BTAT-4710 Ministry Internship | 3 |
| BTCM-2200 Introduction to Youth Ministry | 2 |
| Choose two from the following | 6 |
| BTAT-3410 Discipleship | 3 |
| BTAT/BTHT-3840 Theology of Sexuality and Family | 3 |
| BTCM-3685 Children's Ministries..... | 3 |
| BTCM-3510 Small Group Ministry | 3 |
| BTCM-3725 Adult Ministries | 3 |
| BTCM-3705 Youth Ministries | 3 |
| BTCM-4350 Teaching Lab | 1 |

*This capstone course for the Youth Ministry concentration is a mentored experience which focuses on the development of the student in a ministry capacity. It requires a minimum of eight weeks of supervised ministry.

Biblical Studies Major Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0-4 |
| General Education Requirements..... | 33-41 |
| Biblical Studies Requirements | 70-72 |
| Required Concentration Requirements..... | 18 |
| General Electives | 0-7 |
| Total (minimum, not including proficiency) | 128 |





A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Biblical Studies

First Year:

| | |
|--|-----------|
| BTAT-2400 Introduction to Evangelism | 3 |
| BTBS-1000 Introduction to Biblical Studies (spring)..... | 1 |
| BTBS-2020 Biblical Research Methods..... | 0 |
| BTGE-1725 The Bible and the Gospel | 3 |
| BTGE-2730 Old Testament Literature..... | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Biology Elective | 3.5 |
| LIT-2XXX Literature Elective | 3 |
| Physical Science Elective | 3.5 |
| Total | 34 |

Second Year:

| | |
|--|-----------|
| BTAT-3200 Intro to Missions: Theology and History..... | 3 |
| *BTBL-2510 Elementary Greek I (fall) | 4 |
| *BTBL-2520 Elementary Greek II (spring) | 4 |
| BTGE-2740 New Testament Literature | 3 |
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| BTPA-2200 Introduction to Philosophy | 3 |
| History Elective..... | 3 |
| Social Science/Global Awareness Elective..... | 3 |
| Quantitative Elective | 3 |
| Total | 32 |

Third Year:

| | |
|---|-----------|
| BTBS-4310 Hermeneutics (fall) | 3 |
| BTHT-3340 Christian Theology I: Bible, Trinity, God the Father..... | 3 |
| BTHT-3350 Christian Theology II: God the Son and God the Spirit .. | 3 |
| BTHT-3510 Christian History and Theology 1 (fall)..... | 3 |
| BTHT-3520 Christian History and Theology 2 (spring) | 3 |
| BTNT-3110 New Testament 1: Synoptic Gospels (fall) | 3 |
| BTNT-3120 New Testament 2: Acts and New Testament Epistles (spring)..... | 3 |
| BTOT-3110 Old Testament 1: Pentateuch (fall)..... | 3 |
| BTOT-3210 Old Testament 2: Former Prophets (spring) | 3 |
| General Electives | 0–5 |
| Total | 32 |

Fourth Year:

| | |
|---|-----------|
| BTNT-3130/6130 New Testament 3: Pauline Literature..... | 3 |
| BTNT-3140/6140 New Testament 4: Johannine Literature..... | 3 |
| BTOT-3310/6130 Old Testament 3: Latter Prophets | 3 |
| BTOT-3410/6140 Old Testament 4: Writings | 3 |
| Concentration Requirements | 18 |
| Total | 30 |

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





A complete description of the general education requirements is found on page 26.

Suggested Three-Year Curriculum for Biblical Studies — Accelerated

First Year:

| | |
|---|-----------|
| BTAT-2400 Introduction to Evangelism | 3 |
| BTBS-1000 Introduction to Biblical Studies (spring) | 1 |
| BTGE-1725 The Bible and the Gospel | 3 |
| BTGE-2730 Old Testament Literature..... | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Biology Elective | 3.5 |
| LIT-2XXX Literature Elective | 3 |
| Physical Science Elective | 3.5 |
| Total | 34 |

Second Year:

| | |
|--|-----------|
| BTAT-3200 Introduction to Missions: Theology and History | 3 |
| BTBL-2510 Elementary Greek I (fall) | 4 |
| BTBL-2520 Elementary Greek II (spring) | 4 |
| BTGE-2740 New Testament Literature | 3 |
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| BTPA-2200 Introduction to Philosophy | 3 |
| History Elective..... | 3 |
| Social Science Elective | 3 |
| Quantitative Elective | 3 |
| General Elective | 1 |
| Total | 33 |

Third Year:

| | |
|---|-----------|
| BTBL-3510 Intermediate Greek I (fall) | 3 |
| BTBL-4110 Greek Syntax and Exegesis (spring) | 3 |
| BTBS-4310 Hermeneutics | 3 |
| BTHT-3340 Christian Theology I: Bible, Trinity, God the Father | 3 |
| BTHT-3350 Christian Theology II: God the Son and God the Spirit | 3 |
| BTHT-3510 Christian History and Theology 1 | 3 |
| BTHT-3520 Christian History and Theology 2 | 3 |
| BTNT-3110 New Testament 1: Synoptic Gospels | 3 |
| BTNT-3120 New Testament 2: Acts and New Testament Epistles..... | 3 |
| BTOT-3110 Old Testament 1: Pentateuch (fall) | 3 |
| BTOT-3210 Old Testament 2: Former Prophets (spring) | 3 |
| Total | 33 |



Biblical Studies — Accelerated BA/Master of Divinity

The Biblical Studies — accelerated program involves a three-year curriculum that contains the course requirements to enable the student to complete a BA in biblical studies and a MDiv in a five year, dual-degree program.

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

| | |
|---|-----------|
| General Education..... | 18 |
| BTGE-1725 The Bible and the Gospel | 3 |
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| BTPA-2200 Introduction to Philosophy | 3 |
| Biblical Studies Accelerated requirements | 48 |
| Combined BA/MDiv — Year 1..... | 4 |
| BTAT-2400 Introduction to Evangelism..... | 3 |
| BTBS-1000 Introduction to Biblical Studies..... | 1 |
| Combined BA/MDiv — Year 2..... | 11 |
| BTAT-3200 Introduction to Missions: Theology and History | 3 |
| BTBL-2510 Elementary Greek I | 4 |
| BTBL-2520 Elementary Greek II | 4 |
| Combined BA/MDiv — Year 3..... | 33 |
| BTBL-3510 Intermediate Greek | 3 |
| BTBL-4110 Greek Syntax and Exegesis..... | 3 |
| BTBS-4310 Hermeneutics | 3 |
| BTHT-3340 Christian Theology I: Bible, Trinity, God the Father | 3 |
| BTHT-3350 Christian Theology II: God the Son and God the Spirit | 3 |
| BTHT-3510 Christian History and Theology 1 | 3 |
| BTHT-3520 Christian History and Theology 2 | 3 |
| BTNT-3110 New Testament 1: Synoptic Gospels | 3 |
| BTNT-3120 New Testament 2: Acts and New Testament Epistles..... | 3 |
| BTOT-3110 Old Testament 1: Pentateuch..... | 3 |
| BTOT-3210 Old Testament 2: Former Prophets..... | 3 |

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

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

Biblical Studies Accelerated Undergraduate Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0–4 |
| Other General Education Requirements..... | 33 |
| Biblical Studies Requirements | 66 |
| General Electives | 0–1 |
| Undergraduate Total (min., not including proficiency)..... | 100 |



One-Year Bible Program

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

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

| | |
|--|-----------|
| General Education | 15 |
| BTGE-1725 The Bible and the Gospel | 3 |
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| BTGE-3755 Theology I..... | 3 |
| BTGE-3765 Theology II | 3 |
| BTNT-XXXX New Testament Electives | 6 |
| BTOT-XXXX Old Testament Electives..... | 3 |
| BTPA-XXXX Philosophy Elective | 3 |

Other Bible Electives.....

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 coursework including:

| | |
|--|---|
| BTGE-1725 The Bible and the Gospel | 3 |
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| BTGE-3755 Theology I..... | 3 |
| BTGE-3765 Theology II | 3 |

Biblical Care and Counseling Minor

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

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

Bible Teacher Education Minor

The **Bible teacher education minor** involves 17 semester hours of coursework for the student who wishes to enter the Christian school classroom and teach Bible. These courses include:

| | |
|---|---|
| EDSE-3000 Principles of Teaching AYA Learners | 4 |
| EDSE-4450 Adolescent/Young Adult Field Experience | 2 |
| EDSP-4250 Communication, Collaboration and Inclusion..... | 2 |
| EDUC-2300 Assessment and Differentiation..... | 2 |
| EDUC-3100 Philosophical Foundations of Education | 3 |
| EDUC-4910 Special Student Teaching..... | 4 |

Christian Ministry Minor

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

| | |
|--|---|
| BTCM-2400 Interpreting and Teaching the Bible..... | 6 |
|--|---|

Choose one from the following

| | |
|--------------------------------------|---|
| BTCM-3685 Children's Ministries..... | 3 |
| BTCM-3700 Campus Ministries | 4 |
| BTCM-3725 Adult Ministries | 3 |

Choose one from the following

| | |
|--|---|
| BTAT-2400 Introduction to Evangelism..... | 3 |
| BTAT-3200 Introduction to Missions: Theology and History | 3 |
| BTAT-3410 Discipleship | 3 |
| BTAT-3730 Theology of Worship | 3 |
| BTCM-3530 Contemporary Ministry to Women and Girls.... | 3 |
| BTCM-4100 Leadership of Christian Educational Ministries. | 3 |
| BTCM-4740 Internship in Christian Ministries..... | 3 |

Any courses with BTAT or BTCM designators

| | |
|-------|-----|
| | 3-4 |
|-------|-----|

Greek Minor

The **Greek minor** provides the student with two years of study in Koine Greek, the original language of the New Testament. This minor is designed to prepare students for the seminary level.

Course requirements include 15 semester hours of elementary and intermediate Greek. These courses include:

| | |
|--|---|
| BTBL-2510, 2520 Elementary Greek I and II..... | 8 |
| BTBL-3510 Intermediate Greek I | 3 |
| BTBL-4110 Greek Syntax and Exegesis | 3 |
| BTBL-4510 Readings in New Testament Greek..... | 1 |

Missions Minor

The **missions minor** for the student interested in cross-cultural ministries involves 15 semester hours including:

| | |
|--|----------|
| BTAT-3200 Introduction to Missions: Theology and History | 3 |
| BTAT-3450 Contemporary World Missions..... | 3 |
| BTAT-3470 Cross-Cultural Ministry | 3 |
| BTAT-3250 Church Planting | 3 |
| At least 3 hours selected from | 3 |

| | |
|---|---|
| BTAT-2400 Introduction to Evangelism..... | 3 |
| BTAT-3410 Discipleship | 3 |
| BTHT-4300 Global Theology | 3 |
| BTPA-2260 World Religions | 3 |

Pastoral Ministry Minor

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

| | |
|--|------------|
| BTAT-3200 Introduction to Missions: Theology and History | 3 |
| or BTAT-2400 Introduction to Evangelism..... | 3 |
| BTAT-3420 Introduction to Pastoral Ministry | 2 |
| BTAT-3430 Interpersonal and Crisis Counseling..... | 3 |
| BTAT-3500 Text-Driven Preaching 1 | 3 |
| BTCM-4100 Leadership in Christian Education Ministries | 3 |
| Choose one from the following | 2-3 |

| | |
|--|-----|
| BTAT-3410 Discipleship | 3 |
| BTAT-3510 Introduction to Urban Missiology | 3 |
| BTAT-4710 Ministry Internship..... | 2-3 |

**Philosophy and Theology Minor**

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

| | |
|---|---|
| BTPA-2200 Introduction to Philosophy | 3 |
| BTPA-2240 Logic | 3 |
| BTPA-2250 Ethics | 3 |
| BTPA-3250 Philosophy of Religion | 3 |
| or BTPA-3450 Biblical Apologetics | 3 |
| BTHT-4320 Contemporary Theology in Historical Context | 3 |
| or BTPA-3XXX/4XXX Philosophy Elective | 3 |

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..... | 4 |
| BTBL-3610 Biblical Hebrew Grammar and Syntax I | 3 |
| BTBL-3620 Biblical Hebrew Grammar and Syntax II | 3 |
| One course selected from..... | 3 |
| BTPA-2250 Ethics | 3 |
| BTBS-4310 Hermeneutics | 3 |
| BTHT-XXXX Theology Electives | 3 |

Pre-Master of Divinity Minor

The **pre-Master of Divinity minor** involves 15 semester hours and is designed to help the student meet prerequisites for Cedarville's Advanced Master of Divinity. This minor, which is designed for students with majors outside of the School of Biblical and Theological Studies, provides a clear pathway into the Advanced MDiv degree at Cedarville. Course requirements are:

| | |
|--|---|
| BTPA-2200 Introduction to Philosophy | 3 |
| or BTPA-2260 World Religions..... | 3 |
| BTAT-2400 Introduction to Personal Evangelism | 3 |
| or BTAT-3200 Introduction to Missions: Theology and History | 3 |
| BTHT-3510 Christian History and Theology 1..... | 3 |
| or BTHT-3520 Christian History and Theology 2..... | 3 |
| BTOT-3110 Old Testament1: Pentateuch | 3 |
| or BTOT-3140 Psalms | 3 |
| or BTOT-3210 Old Testament 2: Former Prophets | 3 |
| or BTOT-3310 Old Testament 3: Latter Prophets | 3 |
| or BTOT-3410 Old Testament 4: Writings | 3 |
| BTNT-3110 New Testament 1: Synoptic Gospels | 3 |
| or BTNT-3120 New Testament 2: Acts and New Testament Epistles..... | 3 |
| or BTNT-3130 New Testament 3: Pauline Literature..... | 3 |
| or BTNT-3140 New Testament 4: Johannine Literature..... | 3 |

**Women's Ministry Minor**

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

| | |
|--|---|
| BTCM-3520 Counseling and Mentoring Women | 3 |
| BTCM-3530 Contemporary Ministry to Women and Girls | 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 Introduction to Evangelism | 3 |
| or BTAT-3410 Discipleship..... | 3 |
| or BTAT/BTHT-3840 Theology of Sexuality and Family..... | 3 |
| or BTCM-3510 Small Group Ministry | 3 |

Youth Ministry Minor

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

| | |
|--|----------|
| BTCM-2200 Introduction to Youth Ministry | 2 |
| BTCM-2400 Interpreting and Teaching the Bible..... | 6 |
| BTCM-3700 Campus Ministries..... | 4 |
| Select one from the following..... | 3 |

| | |
|--|---|
| BTAT-2400 Introduction to Evangelism..... | 3 |
| BTAT-3200 Introduction to Missions: Theology and History.... | 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 |





Robert W. Plaster

SCHOOL OF BUSINESS

CEDARVILLE UNIVERSITY

Dr. Jeffrey Haymond, Dean

| | |
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Business

Mission Statement

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

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

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

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

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



Accreditation

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

Programs of Study

The Robert W. Plaster School of Business offers the following programs:

Majors

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

Minors

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

Personal Requirements

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

School Requirements

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

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

- Students majoring in business must earn at least a 2.0 GPA in all sophomore-level business courses required for their major in order to graduate with a degree in a business major.
- Students majoring in business must earn at least a "C-" in any prerequisite business course before being allowed to enter the subsequent course for which that course is a prerequisite. Waivers to this requirement are made only in exceptional circumstances, and such waivers require the approval of the Dean of the school in consultation with the professor responsible for the subsequent course.
- In general, business majors should complete all 2000-level business core courses before beginning a 3000-level business course outside their major.
- Before taking a 4000-level business course, students must have satisfactorily completed all 2000-level business administration core courses required for their major. Waivers to this requirement are made only in exceptional circumstances, and such waivers require the approval of the school dean.

- To graduate with a major from the Robert W. Plaster School of Business, 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 Robert W. Plaster School of Business 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.

Cocurricular Opportunities

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

Accounting Society

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

Association for Information Systems

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

Delta Mu Delta

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

Financial Management Association

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

Human Resource Management

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

Women in Business

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

Career Opportunities

Accounting Major

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

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

Economics Major

Economics is about decision-making in the presence of scarcity, which necessitates trade-offs. The economic way of thinking leads to career opportunities such as:

- Business Analytics
- Forecaster
- Financial Analyst
- Lawyer
- Management
- Policymakers
- Researcher

Finance Major

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

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

Global Business Major

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

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

Information Technology Management Major

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

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

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

Faculty

Jeffrey Haymond, *Dean; Professor of Economics.* *Education:* BS, United States Air Force Academy, 1985; MS, University of Tennessee, 1989; MA, University of Denver, 1997; PhD, George Mason University, 2001. At Cedarville since 2010.

Andrew Wonders, *Assistant Dean for Undergraduate Programs; Assistant Professor of Sport Business Management.* *Education:* BS, Sport Management, Slippery Rock University, 2000; MS, Sport Administration, University of Northern Colorado, 2006. At Cedarville since 2013.

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

Jon Austin, *Associate Professor of Marketing.* *Education:* BA, University of Northern Iowa, 1982; MS, Iowa State University, 1989; PhD, University of Wisconsin-Madison, 1997. At Cedarville since 2001.

Jonathan Burson, *Assistant Professor of Finance.* *Education:* BA, Cedarville University, 2000; MBA, Trident University, 2004; PhD, Auburn University, 2021. At Cedarville since 2021.

Alan Geist, *Associate Professor of Sport Business Management.* *Education:* BA, Cedarville University, 1983; MSS, United States Sports Academy, 1989; PhD, The Ohio State University, 2001. At Cedarville since 2005.

Jeffrey Guernsey, *Associate Professor of Finance.* *Education:* BS, Purdue University, 1979; MSc., Iowa State University, 1981; DBA, Anderson University, 2017. At Cedarville since 2003.

Charles Hartman, *Associate Professor of Business Law and Accounting; Assistant to University Counsel.* *Education:* BA, Michigan State University, 1984; MBA, Michigan State University, 1984; JD, University of Dayton School of Law, 1997. At Cedarville since 1989.

Lindsey Howell, *Assistant Professor of Accounting.* *Education:* BS, Cedarville University, 2005; MAcc, Bowling Green State University, 2006. At Cedarville since 2023.

Alina Leo, *Assistant Professor of Management.* *Education:* BA, Mykolas Romeris University, Vilnius, Lithuania, 2008; MBA University of Maryland Global Campus, 2019. At Cedarville since 2023.

Kary Oberbrunner, *Assistant Professor of Entrepreneurship; Berry Chair of Entrepreneurship.* *Education:* BA, Grace Theological Seminary, 1999; MDiv, Grace Theological Seminary, 2001; DMin, Ashland Theological Seminary, 2006. At Cedarville since 2023.

Jared Pincin, *Associate Professor of Economics.* *Education:* BA, American University, 2004; MS, Auburn University, 2007; PhD, West Virginia University, 2011. At Cedarville since 2023.

Diedrich Prigge, *Associate Professor of Management.* *Education:* BS, Arizona State University, 2002; MS, Arizona State University, 2010; PhD, Arizona State University, 2013. At Cedarville since 2018.

Loren Reno, *Senior Advisor, Office of the President; Professor of Management.* *Education:* BA, Cedarville University, 1970; MS, University of Southern California, 1981. At Cedarville since 2012.

Anne Rich, *Professor of Accounting.* *Education:* BA, Cedarville University, 1978; MS, University of Central Florida, 1978; CPA, State of Florida, 1979. At Cedarville since 2000.

Daryl Smith, *Associate Professor of Management.* *Education:* BS, United States Air Force Academy, 1984; MS, Wright State University, 1994; PhD, University of Washington Business School, 1999. At Cedarville since 2018.

Daniel Sterkenburg, *Associate Professor of Business and Management.* *Education:* BS, Calvin College, 1977; MPH, University of Michigan School of Public Health, 1979; MBA, Wright State University, 1990; DBA, Anderson University, 2017. At Cedarville since 2010.

Janice Supplee, *Vice President for Marketing and Communications; Dean of Graduate Studies; Assistant Professor of Business Education.* BA, Cedarville University, 1986; MBA, Wright State University, 2001; PhD, University of Nebraska, 2014. At Cedarville since 1995.

John K. Tarwater, *Associate Professor of Finance.* *Education:* BS, Carson-Newman College, 1991; MTS, Duke University, 1993; MA, Carson-Newman College, 1998; PhD, Southeastern Baptist Theological Seminary, 2002; PhD, University of Texas Rio Grande Valley, 2018. At Cedarville since 2017.

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

Phoebe Tsai, *Associate Professor of Information Technology Management.* *Education:* BBA, National Chengchi University, 1997; MBA, National Chengchi University, 2000; PhD, University of Western Ontario, 2010. At Cedarville since 2013.

Bert Wheeler, *Professor of Economics.* *Education:* BS, University of Tennessee, 1981; MA, University of Tennessee, 1984; PhD, University of Tennessee, 1985. At Cedarville since 1992.

Emeriti

William Ragle, *Professor Emeritus of Finance.* *Education:* BS, Stephen F. Austin State University, 1976; MBA, University of North Texas, 1988; PhD, University of North Texas, 1996. At Cedarville since 1995.

Galen Smith, *Professor Emeritus of Economics.* *Education:* BA, Washburn University, 1966; MS, Kansas State University, 1968; MDiv, Grace Theological Seminary, 1978; DMin, Trinity Evangelical Divinity School, 1998. At Cedarville since 1981.

Ronald Walker, *Professor Emeritus of Management Science.* *Education:* BS, Bowling Green State University, 1965; MS, University of Michigan, 1966; DBA, Kent State University, 1986.

Integrated Business Core (IBC)

The Integrated Business Core (IBC) was initiated by the Robert W. Plaster School of Business 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 preparatory course in marketing in the spring of their sophomore year, followed by Principles of Management and Principles of Finance courses in the fall of their junior year. Students also take the IBC practicum, where they put their business skills learned in the principles courses to work. As part of the practicum, students form their own company, write a business plan, obtain a loan, implement their plan, make a profit, and close down operations. While running their company, they choose a local nonprofit organization to contribute a minimum of 10 hours of work per student and all of their profits at the end of the semester.

The IBC gives students more ownership of the learning process and provides practical, real-life experience of actually doing what they are learning about. In the years since its inception at Cedarville University, IBC students have donated over 7,400 hours of service and \$60,800 to nonprofit organizations.

Advisory Council

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

Board members include:

*Mr. Ronald Baker, Executive Management Consulting
Mr. Matt Boehm, PrefTech
Mr. Joel Campbell, TreviPay
Ms. Connie Carr, Seeley, Savidge, Ebert and Gourash, LPA
Mr. Devin Cheek, Rolls Royce
Mr. Mike Crawford, College For Less, Inc.
Mr. Louie D'Amico, Givaudan
Mrs. Deborah Dishong, Vinmar Intl.
Mr. Dan Douglas, NiSource, Inc.
Mr. James Edgar, Boeing Commercial Executive (Ret)
Ms. Lori Greenawalt, KPMG
Mr. Darrin Grove, Trufit
Mr. David Judson, JJR Solutions
Mr. Brian Sallee, Avorit
Mr. Travis Smith, Roger Perry & Co.
Mr. Jim Stevenson, International Center for Creativity*



Accounting — Bachelor of Science

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

Course requirements involve 70 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..... | 3 |
| ACCT-3150 Accounting Information Systems | 3 |
| ACCT-3170 Managerial Accounting..... | 3 |
| ACCT-4110 Federal Income Tax..... | 3 |
| ACCT-4120 Auditing..... | 3 |
| BUS-2150 Statistics for Business | 3 |
| BUS-2180 Business Law I..... | 3 |
| BUS-3000 The Business Experience | 1 |
| BUS-3150 Operations Analysis..... | 3 |
| BUS-3910 International Business..... | 3 |
| BUS-4420 Business Ethics and Social Responsibility..... | 2 |
| ECON-2330 Microeconomics | 3 |
| ECON-2340 Macroeconomics..... | 3 |
| ENTR-1010 Creative Problem-Solving | 2 |
| FIN-3710 Principles of Finance..... | 3 |
| ITM-1510 Software Tools for Business..... | 2 |
| MGMT-3500 Principles of Organization and Management | 3 |
| *MGMT-4510 Strategic Management..... | 3 |
| MRKT-3600 Principles of Marketing | 3 |
| Accounting electives selected from the following | 9 |

| | |
|---|---|
| ACCT-4130 Advanced Financial Accounting | 3 |
| ACCT-4150 Government and Non Profit Accounting..... | 3 |
| ACCT-4170 Advanced Managerial Accounting | 3 |
| ACCT-4210 Taxation of Business Entities | 3 |
| ACCT-4220 International Accounting | 3 |
| BUS-3180 Business Law II | 3 |

*Capstone Course

| | |
|--------------------------------|----------|
| Required Cognate..... | 3 |
| GMTH-1020 College Algebra..... | 3 |

(Satisfies quantitative requirement for general education core.)

Accounting Major Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0-4 |
| General Education Requirements..... | 48 |
| Accounting Major Requirements..... | 70 |
| Required Cognate..... | 3 |
| Electives | 7 |
| Total (minimum, not including proficiency) | 128 |

The **CPA concentration[#]** reflects the state of Ohio requirements of 150 semester hours of undergraduate or graduate education, 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 |

Program licensure required; see Program Licensure on page 21.

Although not specifically required by the state of Ohio, the following courses include materials that are covered in the CPA exam and are recommended for all accounting majors preparing to take the CPA exam. Several of these courses are required by other states.

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

A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Accounting

First Year:

| | |
|--|-------------|
| ACCT-2110 Principles of Accounting I..... | 3 |
| ACCT-2120 Principles of Accounting II | 3 |
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| ENTR-1010 Creative Problem-Solving | 2 |
| GMTH-1020 College Algebra..... | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| ITM-1510 Software Tools for Business..... | 2 |
| Biological Science Elective | 3.5 |
| Total | 31.5 |

Second Year:

| | |
|--|-------------|
| ACCT-3110 Intermediate Financial Accounting I..... | 3 |
| ACCT-3120 Intermediate Financial Accounting II | 3 |
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| BUS-2150 Statistics for Business | 3 |
| BUS-2180 Business Law I..... | 3 |
| ECON-2330 Microeconomics | 3 |
| ECON-2340 Macroeconomics | 3 |
| PEF-1990 Physical Activity and Healthy Living | 2 |
| LIT-2XXX Literature Elective | 3 |
| Physical Science Elective | 3.5 |
| Total | 32.5 |

Third Year:

| | |
|---|-----------|
| ACCT-3150 Accounting Information Systems | 3 |
| ACCT-3170 Managerial Accounting | 3 |
| ACCT-4120 Auditing | 3 |
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| BUS-3000 The Business Experience | 1 |
| BUS-3150 Operations Analysis | 3 |
| BUS-3910 International Business | 3 |
| FIN-3710 Principles of Finance | 3 |
| MGMT-3500 Principles of Organization and Management | 3 |
| MRKT-3600 Principles of Marketing | 3 |
| Electives | 3 |
| Total | 34 |

Fourth Year:

| | |
|--|-----------|
| ACCT-4110 Federal Income Taxes | 3 |
| BUS-4420 Business Ethics and Social Responsibility | 2 |
| MGMT-4510 Strategic Management | 3 |
| Accounting Electives | 9 |
| History Elective | 3 |
| Humanities Elective | 3 |
| Social Science Elective | 3 |
| Electives | 4 |
| Total | 30 |

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-2150 Statistics for Business | 3 |
| BUS-2180 Business Law I | 3 |
| ECON-2330 Microeconomics | 3 |
| ECON-2340 Macroeconomics | 3 |
| ECON-3335 Intermediate Microeconomics | 3 |
| ECON/HIST-3340 History of Economic Thought | 3 |
| ECON-3345 Intermediate Macroeconomics | 3 |
| ECON/PUAD-3390 Public Finance | 3 |
| FIN-3710 Principles of Finance | 3 |
| 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 | 3 |
| 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-3690 Public Policy | 3 |
| POLS-3730 American Political Thought | 3 |
| POLS-4630 American Constitutional Law: Civil Liberties and Rights | 3 |
| POLS-4640 American Constitutional Law: Government Powers and Federalism | 3 |

Political Economy concentration

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

*Capstone Course

| | |
|---------------------------------|---|
| Required Cognate..... | 3 |
| GMTH-1020 College Algebra | 3 |

(Satisfies quantitative requirement for general education core.)

Economics — BA Major Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0–4 |
| General Education Requirements | 42–50 |
| 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 on page 26.

Suggested Four-Year Curriculum for a Major in Economics — BA

First Year:

| | |
|---|-----------|
| BTGE-1725 The Bible and the Gospel | 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:

| | |
|---|-----------|
| 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-2150 Statistics for Business | 3 |
| BUS-2180 Business Law I | 3 |
| ECON-2330 Microeconomics | 3 |
| ECON-2340 Macroeconomics | 3 |
| PEF-1990 Physical Activity and Healthy Living | 2 |
| LIT-2XXX Literature Elective | 3 |
| Concentration Elective | 3 |
| Total | 32 |

Third Year:

| | |
|---|-----------|
| 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 | 9 |
| Total | 30 |



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-2150 Statistics for Business | 3 |
| BUS-2180 Business Law I | 3 |
| ECON-2330 Microeconomics | 3 |
| ECON-2340 Macroeconomics | 3 |
| ECON-3335 Intermediate Microeconomics | 3 |
| ECON/HIST-3340 History of Economic Thought | 3 |
| ECON-3345 Intermediate Macroeconomics | 3 |
| ECON/PUAD-3390 Public Finance | 3 |
| FIN-3710 Principles of Finance | 3 |
| 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 Analytics concentration

| | |
|---|---|
| BUS-2170 Introduction to Business Analytics | 3 |
| BUS-3150 Operations Analysis | 3 |
| BUS-4150 Advanced Business Analytics and Visualization .. | 3 |
| ECON-3375 Mathematical Economics | 3 |
| ECON-4110 Introduction to Econometrics | 3 |
| ITM-2100 Database Management | 3 |
| Select two of the following | 6 |
| ECON-3310 Money and Financial Markets | 3 |
| ECON-3350 Comparative Economic Systems | 3 |
| ECON-3360 International Trade Economics | 3 |
| ECON-3380 Economic Development and Political Economy | 3 |
| ECON-3410 Topics in Economics | 3 |

*Students opting to take the Business Analytics concentration are not eligible to take the Business Analytics minor.

Political Economy concentration

| | |
|--|---|
| ECON-3375 Mathematical Economics | 3 |
| ECON-4110 Introduction to Econometrics | 3 |
| HIST-3120 History of Recent and Contemporary America.... | 3 |
| HIST-3720 History of Political Thought II | 3 |
| POLS-3790 Comparative Politics | 3 |
| Select three of the following | 9 |
| ECON-3310 Money and Financial Markets | 3 |
| ECON-3360 International Trade Economics | 3 |
| ECON-3410 Topics in Economics | 3 |
| POLS-3730 American Political Thought | 3 |
| POLS-4640 American Constitutional Law: Government Powers and Federalism | 3 |

*Capstone Course

| | |
|----------------------------|---|
| Required Cognate..... | 5 |
| MATH-1710 Calculus I | 5 |

(Satisfies quantitative requirement for general education core.)

Economics — BS Major Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0–4 |
| General Education Requirements | 42 |
| Economics Major Requirements | 68 |
| Required Cognate | 5 |
| Electives | 13 |
| Total (minimum, not including proficiency) | 128 |

A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Economics — BS

First Year:

| | |
|---|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech | 3 |
| ENG-1400 Composition | 3 |
| GSS-1100 Politics and American Culture | 3 |
| HUM-1400 Introduction to the Humanities | 3 |
| ITM-1510 Software Tools for Business | 2 |
| MATH-1710 Calculus I | 5 |
| Biological Science Elective | 3.5 |
| Physical Science Elective | 3.5 |
| Humanities Elective | 3 |
| Total | 32 |

Second Year:

| | |
|---|-----------|
| 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-2150 Statistics for Business | 3 |
| BUS-2180 Business Law I | 3 |
| ECON-2330 Microeconomics | 3 |
| ECON-2340 Macroeconomics | 3 |
| PEF-1990 Physical Activity and Healthy Living | 2 |
| LIT-2XXX Literature Elective | 3 |
| General Elective | 3 |
| Total | 32 |

Third Year:

| | |
|---|-----------|
| 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 | 15 |
| General Electives | 7 |
| Total | 31 |

Finance — Bachelor of Science

The **Bachelor of Science degree in finance** prepares students for careers as financial analysts, security analysts, financial planners, or account executives within the banking, insurance, and securities industries and other commercial concerns.

Course requirements involve 63 semester hours including:

| | |
|---|---|
| ACCT-2110 Principles of Accounting I | 3 |
| ACCT-2120 Principles of Accounting II | 3 |
| BUS-2150 Statistics for Business | 3 |
| BUS-2180 Business Law I | 3 |
| BUS-3000 The Business Experience | 1 |
| BUS-3150 Operations Analysis..... | 3 |
| BUS-3910 International Business | 3 |
| BUS-4420 Business Ethics and Social Responsibility..... | 2 |
| ECON-2330 Microeconomics | 3 |
| ECON-2340 Macroeconomics..... | 3 |
| ENTR-1010 Creative Problem-Solving | 2 |
| FIN-3310 Money and Financial Markets | 3 |
| FIN-3710 Principles of Finance..... | 3 |
| FIN-3730 Investments | 3 |
| FIN-4770 Advanced Financial Management..... | 3 |
| ITM-1510 Software Tools for Business..... | 2 |
| ITM-3410 Topics in Information Technology Management..... | 2 |
| MGMT-3500 Principles of Organization and Management | 3 |
| *MGMT-4510 Strategic Management..... | 3 |
| MRKT-3600 Principles of Marketing | 3 |

Finance Electives selected from

| | |
|---|---|
| ACCT-3110 Intermediate Financial Accounting I | 3 |
| or ACCT-4110 Federal Income Taxes..... | 3 |
| FIN-3750 International Finance | 3 |
| FIN-3760 Financial Planning..... | 3 |
| FIN-3770 Security Analysis and Portfolio Management | 3 |
| FIN-4715 Applied Portfolio Management (requires three one-hour credits) | 3 |
| FIN-4750 Financial Institution Management | 3 |

*Capstone Course

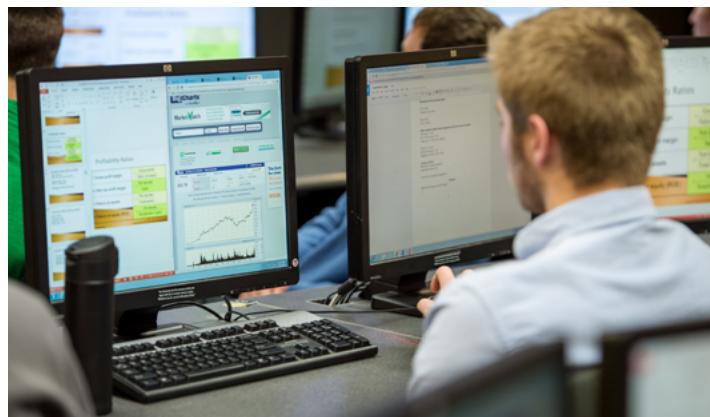
Required Cognate.....

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

(Satisfies quantitative requirement for general education core.)

Finance Major Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0-4 |
| General Education Requirements | 48 |
| Finance Major Requirements..... | 63 |
| Required Cognate..... | 3 |
| Electives | 14 |
| Total (minimum, not including proficiency) | 128 |



A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Finance

First Year:

| | |
|--|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| ENTR-1010 Creative Problem-Solving | 2 |
| 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 |
| History Elective | 3 |
| Physical Science Elective | 3.5 |
| Total | 32 |

Second Year:

| | |
|---|-----------|
| 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-2150 Statistics for Business | 3 |
| BUS-2180 Business Law I | 3 |
| ECON-2330 Microeconomics | 3 |
| ECON-2340 Macroeconomics | 3 |
| FIN-3710 Principles of Finance | 3 |
| PEF-1990 Physical Activity and Healthy Living | 2 |
| Social Science Elective | 3 |
| Total | 32 |

Third Year:

| | |
|---|-----------|
| 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-3310 Money and Financial Markets | 3 |
| FIN-3730 Investments | 3 |
| ITM-3410 Topics in Information Technology Management..... | 2 |
| MGMT-3500 Principles of Organization and Management | 3 |
| MRKT-3600 Principles of Marketing | 3 |
| Humanities Elective | 3 |
| Finance Electives | 3 |
| Total | 33 |

Fourth Year:

| | |
|---|-----------|
| BUS-4420 Business Ethics and Social Responsibility..... | 2 |
| FIN-4770 Advanced Financial Management..... | 3 |
| MGMT-4510 Strategic Management | 3 |
| LIT-2XXX Literature Elective | 3 |
| Finance Electives | 6 |
| Electives | 14 |
| Total | 31 |

Suggested Three-Year Curriculum for a Major in Finance

Fall Year 1:

| | |
|---|-----------|
| ACCT-2110 Principles of Accounting I..... | 3 |
| BTGE-1725 The Bible and the Gospel | 3 |
| ENG-1400 Composition..... | 3 |
| ENTR-1010 Creative Problem-Solving..... | 2 |
| GMTH-1020 College Algebra..... | 3 |
| ITM-1510 Software Tools for Business..... | 2 |
| Total | 16 |

Spring Year 1:

| | |
|---|-----------|
| ACCT-2120 Principles of Accounting II | 3 |
| BTGE-2730 Old Testament Literature..... | 3 |
| BUS-2180 Business Law I | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| Electives | 5 |
| Total | 17 |

Summer Year 1:

| | |
|---|-------------|
| BTGE-2740 New Testament Literature | 3 |
| BUS-2150 Statistics for Business | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| Physical Science Elective | 3.5 |
| Elective | 3 |
| Total | 15.5 |

Fall Year 2:

| | |
|---|-----------|
| BUS-3150 Operations Analysis | 3 |
| ECON-2330 Microeconomics | 3 |
| FIN-3710 Principles of Finance..... | 3 |
| ITM-3410 Topics in Information Technology Management..... | 2 |
| MGMT-3500 Principles of Organization and Management | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Electives | 1 |
| Total | 17 |

Spring Year 2:

| | |
|---|-----------|
| BTGE-3755 Theology I | 3 |
| BUS-3000 The Business Experience | 1 |
| ECON-2340 Macroeconomics | 3 |
| FIN-3730 Investments | 3 |
| MRKT-3600 Principles of Marketing | 3 |
| Social Sciences Elective | 3 |
| Total | 16 |

Summer Year 2:

| | |
|--|-------------|
| BTGE-3765 Theology II | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| Biology Elective | 3.5 |
| Humanities Elective | 3 |
| Electives | 3 |
| Total | 15.5 |

Fall Year 3:

| | |
|---|-----------|
| BUS-3910 International Business..... | 3 |
| BUS-4420 Business Ethics and Social Responsibility..... | 2 |
| FIN-3760 Financial Planning | 3 |
| FIN-3770 Security Analysis and Portfolio Management | 3 |
| LIT-2XXX Literature Elective | 3 |
| Elective | 2 |
| Total | 16 |

Spring Year 3:

| | |
|---|-----------|
| FIN-3310 Money and Financial Markets..... | 3 |
| FIN-3750 International Finance..... | 3 |
| FIN-4770 Advanced Financial Management..... | 3 |
| MGMT-4510 Strategic Management..... | 3 |
| History Elective | 3 |
| Total | 15 |



Global Business

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

Course requirements involve 82–83 hours, including:

Global Studies core.....17

| | |
|---|---|
| ANTH-1800 Cultural Anthropology | 3 |
| BTPA-2260 World Religions..... | 3 |
| BUS-3910 International Business..... | 3 |
| COM-2140 Intercultural Communication..... | 3 |
| INTL-2100 Global Issues | 3 |
| Electives (approved by department) | 2 |

Global Studies Area focus (choose one).....16–17

Area Studies — Asia

| | |
|--|---|
| **CHN-1100 Elementary Chinese I | 4 |
| **CHN-1200 Elementary Chinese II..... | 4 |
| ECON-3380 Economic Development and Political Economy | 3 |
| HIST-3210 History and Politics of East Asia | 3 |
| LIT-3460 Contemporary East Asian Literature | 3 |

Area Studies — Latin America

| | |
|---|---|
| ECON-3380 Economic Development and Political Economy | 3 |
| INTL-3200 History and Politics of Latin America | 3 |
| ***SPAN-2710 Intermediate Spanish I | 4 |
| ***SPAN-2720 Intermediate Spanish II | 3 |
| SPAN-3640 Introduction to Hispanic Literature | 3 |

Area Studies — Middle East

| | |
|--|---|
| **ARBC-1410 Elementary Arabic I | 4 |
| **ARBC-1420 Elementary Arabic II | 4 |
| ECON-3380 Economic Development and Political Economy | 3 |
| INTL-3220 History and Politics of Middle East | 3 |
| LIT-2330 World Mythology..... | 3 |

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 | 3 |
| LIT-2330 World Mythology..... | 3 |

Global Business core.....37

| | |
|---|---|
| ACCT-2110 Principles of Accounting I..... | 3 |
| ACCT-2120 Principles of Accounting II | 3 |
| 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 |
| ENTR-1010 Creative Problem-Solving | 2 |
| FIN-3710 Principles of Finance..... | 3 |
| ITM-1510 Software Tools for Business..... | 2 |
| MGMT-3500 Principles of Organization and Management | 3 |
| *MGMT-4510 Strategic Management..... | 3 |
| MRKT-3600 Principles of Marketing | 3 |

Global Business concentration (choose one)12

Accounting concentration

| | |
|---|---|
| ACCT-3110 Intermediate Financial Accounting I | 3 |
| ACCT-3120 Intermediate Financial Accounting II..... | 3 |
| ACCT-3170 Managerial Accounting | 3 |
| ACCT-4220 International Accounting | 3 |

Economics concentration

| | |
|---|---|
| ECON-3335 Intermediate Microeconomics..... | 3 |
| ECON-3340 History of Economic Thought | 3 |
| ECON-3350 Comparative Economic Systems..... | 3 |
| ECON-3360 International Trade and Economics | 3 |

Finance concentration

| | |
|---|---|
| FIN-3310 Money and Financial Markets | 3 |
| FIN-3730 Investments..... | 3 |
| FIN-3750 International Finance | 3 |
| FIN-4770 Advanced Financial Management..... | 3 |

Information Technology Management concentration

| | |
|---|---|
| ITM-1900 Fundamentals of IT Management | 3 |
| ITM-2100 Database Management..... | 3 |
| ITM-3400 Data Communications and Networking | 3 |
| ITM-3600 Business Process Management | 3 |

Marketing concentration

| | |
|---|---|
| MRKT-3610 Sales/Sales Management Systems..... | 3 |
| MRKT-3650 Consumer Behavior | 3 |
| MRKT-4610 Marketing Strategy | 3 |
| MRKT-4620 International Marketing | 3 |

Sport Management concentration

| | |
|---|---|
| SMGT-2100 Sport in Society..... | 3 |
| SMGT-2500 Organizational Behavior in Sport | 3 |
| SMGT-4100 Sponsorship and Promotion in Sport Industry | 3 |
| SMGT-4200 Financing Sport Operations | 3 |

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

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 Robert W. Plaster School of Business Associate Dean. This requirement is generally not fulfilled by travel overseas or minimum Global Outreach experience.

Required Cognate.....3

| | |
|--|---|
| GMTH-1020 College Algebra | 3 |
| (Satisfies quantitative requirement for general education core.) | |

Global Business Curriculum Summary:

| | |
|---|------------|
| Proficiency Requirements | 0–4 |
| Other General Education Requirements | 39 |
| Global Studies Requirements | 33–34 |
| Global Business Requirements | 49 |
| Required Cognate | 3 |
| General Electives | 3–4 |
| Total (minimum, not including proficiency) | 128 |

A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Global Business

First Year:

| | |
|--|-------------|
| ANTH-1800 Cultural Anthropology | 3 |
| BTGE-1725 The Bible and the Gospel | 3 |
| BTGE-2730 Old Testament Literature..... | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition | 3 |
| ENTR-1010 Creative Problem-Solving | 2 |
| 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 |
| Biology Elective | 3.5 |
| Global Studies Core Elective | 2 |
| Total | 33.5 |

Second Year:

| | |
|--|-----------|
| 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 |
| BUS-2180 Business Law I | 3 |
| COM-2140 Intercultural Communication..... | 3 |
| ECON-2330 Microeconomics | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| MRKT-3600 Principles of Marketing | 3 |
| Global Studies Area Focus | 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-3910 International Business..... | 3 |
| INTL-2100 Global Issues | 3 |
| MGMT-4510 Strategic Management..... | 3 |
| Global Studies Area Focus | 5 |
| Global Studies Concentration Requirements..... | 9 |
| LIT-2XXX Literature Elective | 3 |
| Physical Science Elective | 3.5 |
| Total | 29.5 |



Information Technology Management — Bachelor of Science

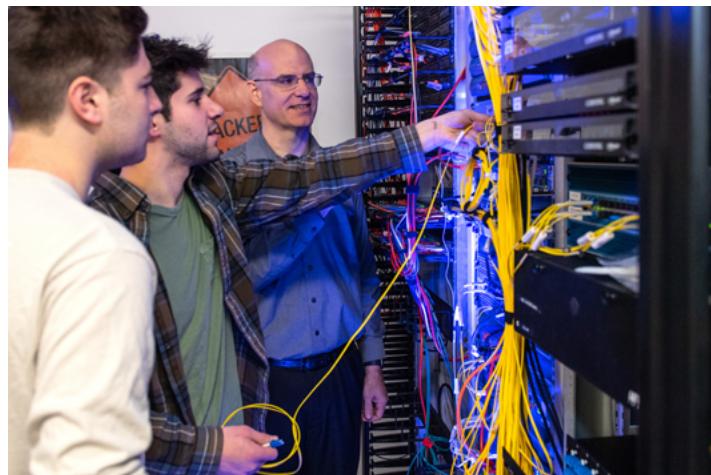
The Bachelor of Science degree in information technology management major prepares students for careers such as application developers, business analysts, database administrators, network administrators, IT project managers, or IT consultants. The curriculum follows guidelines established by the Association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

Course requirements involve 69 semester hours including:

| | |
|--|-----------|
| ACCT-2110 Principles of Accounting I..... | 3 |
| ACCT-2120 Principles of Accounting II | 3 |
| BUS-2150 Statistics for Business | 3 |
| BUS-2180 Business Law I..... | 3 |
| BUS-3000 The Business Experience | 1 |
| BUS-3910 International Business..... | 3 |
| BUS-4420 Business Ethics and Social Responsibility..... | 2 |
| ECON-2330 Microeconomics | 3 |
| ENTR-1010 Creative Problem-Solving | 2 |
| FIN-3710 Principles of Finance..... | 3 |
| ITM-1510 Software Tools for Business..... | 2 |
| ITM-1900 Fundamentals of IT Management..... | 3 |
| ITM-2100 Database Management | 3 |
| ITM-2300 Introduction to Programming | 3 |
| ITM-3400 Data Communications and Networking | 3 |
| ITM-3410 Topics in Information Technology Management..... | 2 |
| ITM-3550 Enterprise Architecture | 3 |
| ITM-4400 System Analysis and Design | 3 |
| *ITM-4900 IT Strategy | 3 |
| MGMT-3500 Principles of Organization and Management | 3 |
| MRKT-3600 Principles of Marketing | 3 |
| Information Technology Management electives | 12 |
| ITM-3XXX or 4XXX electives | 12 |
| *Capstone Course | |
| Required Cognate..... | 3 |
| GMTH-1020 College Algebra..... | 3 |
| (Satisfies quantitative requirement for general education core.) | |

Information Technology Management Major Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0-4 |
| General Education Requirements..... | 48 |
| Information Systems Major Requirements..... | 69 |
| Required Cognate..... | 3 |
| Electives | 8 |
| Total (minimum, not including proficiency) | 128 |



A complete description of the general education requirements is found on page 26.

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

First Year:

| | |
|--|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| ENTR-1010 Creative Problem-Solving | 2 |
| GMTH-1020 College Algebra..... | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| ITM-1510 Software Tool for Business | 2 |
| ITM-1900 Fundamentals of IT Management..... | 3 |
| Humanities Elective | 3 |
| Social Science Elective | 3 |
| Total | 31 |

Second Year:

| | |
|---|-------------|
| 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-2150 Statistics for Business | 3 |
| BUS-2180 Business Law I..... | 3 |
| ITM-2100 Database Management | 3 |
| ITM-2300 Introduction to Programming | 3 |
| ITM-3410 Topics in Information Technology Management..... | 2 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Biological Science Elective | 3.5 |
| Total | 31.5 |

Third Year:

| | |
|---|-----------|
| BTGE-3755 Theology I..... | 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-3XXX or 4XXX 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-3XXX or 4XXX Electives | 6 |
| History Elective | 3 |
| LIT-2XXX Literature Elective | 3 |
| Physical Science Elective | 3.5 |
| Electives | 8 |
| Total | 31.5 |



Management — Bachelor of Science

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

Course requirements involve 69 semester hours including:

| | |
|--|---|
| ACCT-2110 Principles of Accounting I..... | 3 |
| ACCT-2120 Principles of Accounting II | 3 |
| BUS-2100 Business Communication..... | 3 |
| BUS-2150 Statistics for Business | 3 |
| BUS-2180 Business Law I..... | 3 |
| BUS-3000 The Business Experience | 1 |
| BUS-3150 Operations Analysis..... | 3 |
| BUS-3910 International Business..... | 3 |
| BUS-4420 Business Ethics and Social Responsibility..... | 2 |
| ECON-2330 Microeconomics | 3 |
| ECON-2340 Macroeconomics..... | 3 |
| ENTR-1010 Creative Problem-Solving | 2 |
| FIN-3710 Principles of Finance..... | 3 |
| ITM-1510 Software Tools for Business..... | 2 |
| ITM-3410 Topics in Information Technology Management..... | 2 |
| or ENTR-1020 Introduction to Entrepreneurship | 2 |
| MGMT-3500 Principles of Organization and Management | 3 |
| MGMT-3525 Service and Production Operations Management | 3 |
| MGMT-3530 Human Resource Management | 3 |
| MGMT-3560 Project Management | 3 |
| *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 Electives Tracks – choose one 6

| | |
|--|----------|
| Construction Management Track | 6 |
| MGMT-3650 Construction Materials and Methods..... | 3 |
| MGMT-3690 Construction Contracts and Delivery Methods | 3 |
| MGMT-4580 Construction Planning and Scheduling | 3 |
| MGMT-4590 Construction Estimating | 3 |
| Entrepreneurship Track | 6 |
| MGMT-3510 Entrepreneurship and Small Business | |
| Management | 3 |
| One of the following | 3 |
| ENTR-3010 Digital Marketing: Creating Content | 3 |
| ENTR-3020 Digital Marketing: Brand Advertising | 3 |
| Human Resource Management Track | 6 |
| MGMT-3580 Compensation and Benefits Management | 3 |
| MGMT-4530 Industrial Relations Management..... | 3 |
| Operations Management Track..... | 6 |
| MGMT-4520 Supply Chain Management | 3 |
| MGMT-4570 Lean Operations Management..... | 3 |
| General Management Track | 6 |
| MGMT-3XXX/4XXX electives, as approved by advisor | 6 |

*Capstone Course

**Students pursuing multiple tracks must complete a minimum of 9 hours of unique coursework for each track.

Required Cognate..... 3

GMTH-1020 College Algebra..... 3
(Satisfies quantitative requirement for general education core.)

Management Major Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0–4 |
| General Education Requirements..... | 48 |
| Management Major Requirements | 69 |
| Required Cognate..... | 3 |
| Electives | 8 |
| Total (minimum, not including proficiency) | 128 |

A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Management

First Year:

| | |
|---|-------------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| ENTR-1010 Creative Problem-Solving | 2 |
| 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 |
| ITM-3410 Topics in Information Technology Management..... | 2 |
| (or ENTR-1020 Introduction to Entrepreneurship | 2 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| History Elective | 3 |
| Physical Science Elective | 3.5 |
| Total | 32.5 |

Second Year:

| | |
|---|-----------|
| 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-2150 Statistics for Business | 3 |
| BUS-2180 Business Law I..... | 3 |
| ECON-2330 Microeconomics | 3 |
| ECON-2340 Macroeconomics | 3 |
| MGMT-3500 Principles of Organization and Management | 3 |
| PWID-3010 Style and Mechanics for Writers | 3 |
| Total | 30 |

Third Year:

| | |
|---|-------------|
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| BUS-2100 Business Communication..... | 3 |
| BUS-3000 The Business Experience | 1 |
| BUS-3150 Operations Analysis | 3 |
| BUS-3910 International Business | 3 |
| FIN-3710 Principles of Finance | 3 |
| MGMT-3530 Human Resource 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..... | 2 |
| MGMT-3525 Service and Production Operations Management | 3 |
| MGMT-3560 Project Management | 3 |
| *MGMT-4510 Strategic Management | 3 |
| MGMT-4550 Applied Leadership | 3 |
| Management Track Electives | 6 |
| Humanities Elective | 3 |
| Social Science Elective | 3 |
| Electives | 8 |
| Total | 34 |

Suggested Three-Year Curriculum for a Major in Management – General

| | |
|--|-------------|
| Fall Year 1: | |
| ACCT-2110 Principles of Accounting I..... | 3 |
| BTGE-1725 The Bible and the Gospel | 3 |
| ENG-1400 Composition..... | 3 |
| ENTR-1010 Creative Problem-Solving..... | 2 |
| GMTH-1020 College Algebra..... | 3 |
| ITM-1510 Software Tools for Business..... | 2 |
| Total | 16 |
| Spring Year 1: | |
| ACCT-2120 Principles of Accounting II | 3 |
| BTGE-2730 Old Testament Literature..... | 3 |
| BUS-2150 Statistics for Business | 3 |
| BUS-2180 Business Law I..... | 3 |
| ITM-3410 Topics in Information Technology Management..... | 2 |
| (or ENTR-1020 Introduction to Entrepreneurship | 2) |
| PWID-3010 Style and Mechanics for Writers | 3 |
| Total | 17 |
| Summer Year 1: | |
| BTGE-2740 New Testament Literature | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| LIT-2XXX Literature Elective | 3 |
| Physical Science Elective | 3.5 |
| Elective | 3 |
| Total | 15.5 |
| Fall Year 2: | |
| BUS-2100 Business Communication..... | 3 |
| ECON-2330 Microeconomics | 3 |
| FIN-3710 Principles of Finance..... | 3 |
| MGMT-3500 Principles of Organization and Management | 3 |
| MGMT-3530 Human Resource Management..... | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Total | 17 |
| Spring Year 2: | |
| BTGE-3755 Theology I | 3 |
| BUS-3000 The Business Experience | 1 |
| BUS-3150 Operations Analysis | 3 |
| ECON-2340 Macroeconomics..... | 3 |
| MGMT-3560 Project Management..... | 3 |
| MRKT-3600 Principles of Marketing | 3 |
| Total | 16 |
| Summer Year 2: | |
| BTGE-3765 Theology II | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| Biology Elective | 3.5 |
| Humanities Elective | 3 |
| Social Sciences Elective | 3 |
| Total | 15.5 |
| Fall Year 3: | |
| BUS-3910 International Business..... | 3 |
| BUS-4420 Business Ethics and Social Responsibility..... | 2 |
| MGMT-3525 Service and Production Operations Management | 3 |
| Management Elective | 3 |
| Elective | 5 |
| Total | 16 |
| Spring Year 3: | |
| GSS-1100 Politics and American Culture..... | 3 |
| MGMT-4510 Strategic Management | 3 |
| MGMT-4550 Applied Leadership | 3 |
| Management Electives | 3 |
| History Elective | 3 |
| Total | 15 |

Suggested Three-Year Curriculum for a Major in Management – Operations

| | |
|--|-------------|
| Fall Year 1: | |
| ACCT-2110 Principles of Accounting I..... | 3 |
| BTGE-1725 The Bible and the Gospel | 3 |
| ENG-1400 Composition..... | 3 |
| ENTR-1010 Creative Problem-Solving..... | 2 |
| GMTH-1020 College Algebra..... | 3 |
| ITM-1510 Software Tools for Business..... | 2 |
| Total | 16 |
| Spring Year 1: | |
| BTGE-2730 Old Testament Literature..... | 3 |
| BUS-2180 Business Law I | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ITM-3410 Topics in Information Technology Management..... | 2 |
| (or ENTR-1020 Introduction to Entrepreneurship | 2) |
| PWID-3010 Style and Mechanics for Writers | 3 |
| LIT-2XXX Literature Elective | 3 |
| Total | 17 |
| Summer Year 1: | |
| ACCT-2120 Principles of Accounting II | 3 |
| BTGE-2740 New Testament Literature | 3 |
| BUS-2150 Statistics for Business | 3 |
| Physical Science Elective | 3.5 |
| Elective | 2 |
| Total | 14.5 |
| Fall Year 2: | |
| BUS-2100 Business Communication..... | 3 |
| BUS-3150 Operations Analysis | 3 |
| ECON-2330 Microeconomics | 3 |
| FIN-3710 Principles of Finance..... | 3 |
| MGMT-3500 Principles of Organization and Management | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Total | 17 |
| Spring Year 2: | |
| BTGE-3755 Theology I | 3 |
| BUS-3000 The Business Experience | 1 |
| ECON-2340 Macroeconomics | 3 |
| MGMT-3560 Project Management | 3 |
| MRKT-3600 Principles of Marketing | 3 |
| Elective | 3 |
| Total | 16 |
| Summer Year 2: | |
| BTGE-3765 Theology II | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| Biology Elective | 3.5 |
| Humanities Elective | 3 |
| Total | 15.5 |
| Fall Year 3: | |
| BUS-3910 International Business..... | 3 |
| BUS-4420 Business Ethics and Social Responsibility..... | 2 |
| MGMT-3525 Service and Production Operations Management | 3 |
| Management Elective | 3 |
| MGMT-3530 Human Resource Management | 3 |
| MGMT-4520 Supply Chain Management | 3 |
| MGMT-4550 Applied Leadership | 3 |
| Total | 17 |
| Spring Year 3: | |
| MGMT-4510 Strategic Management | 3 |
| MGMT4570 Lean Operations Management | 3 |
| History Elective | 3 |
| Social Sciences Elective | 3 |
| Electives | 3 |
| Total | 15 |



Suggested Three-Year Curriculum for a Major in Management-Human Resources

Fall Year 1:

| | |
|---|-----------|
| ACCT-2110 Principles of Accounting I..... | 3 |
| BTGE-1725 The Bible and the Gospel | 3 |
| ENG-1400 Composition..... | 3 |
| ENTR-1010 Creative Problem-Solving..... | 2 |
| GMTH-1020 College Algebra..... | 3 |
| ITM-1510 Software Tools for Business..... | 2 |
| Total | 16 |

Spring Year 1:

| | |
|---|-----------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BUS-2180 Business Law I | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ITM-3410 Topics in Information Technology Management..... | 2 |
| (or ENTR-1020 Introduction to Entrepreneurship | 2) |
| PWID-3010 Style and Mechanics for Writers | 3 |
| LIT-2XXX Literature Elective | 3 |
| Total | 17 |

Summer Year 1:

| | |
|---|-------------|
| ACCT-2120 Principles of Accounting II | 3 |
| BTGE-2740 New Testament Literature | 3 |
| BUS-2150 Statistics for Business | 3 |
| Physical Science Elective | 3.5 |
| Elective | 2 |
| Total | 14.5 |

Fall Year 2:

| | |
|---|-----------|
| BUS-2100 Business Communication..... | 3 |
| BUS-3150 Operations Analysis | 3 |
| ECON-2330 Microeconomics | 3 |
| FIN-3710 Principles of Finance..... | 3 |
| MGMT-3500 Principles of Organization and Management | 3 |
| MGMT-3530 Human Resource Management..... | 3 |
| Total | 18 |

Spring Year 2:

| | |
|--|-----------|
| BTGE-3755 Theology I | 3 |
| BUS-3000 The Business Experience | 1 |
| ECON-2340 Macroeconomics | 3 |
| MGMT-3560 Project Management..... | 3 |
| MGMT-3580 Compensation & Benefits Management | 3 |
| MRKT-3600 Principles of Marketing | 3 |
| Total | 16 |

Summer Year 2:

| | |
|--|-------------|
| BTGE-3765 Theology II | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| Biology Elective | 3.5 |
| Humanities Elective | 3 |
| Total | 15.5 |

Fall Year 3:

| | |
|--|-----------|
| BUS-3910 International Business..... | 3 |
| BUS-4420 Business Ethics and Social Responsibility..... | 2 |
| MGMT-3525 Service and Production Operations Management | 3 |
| MGMT-4550 Applied Leadership | 3 |
| Social Sciences Elective | 3 |
| Elective | 3 |
| Total | 17 |

Spring Year 3:

| | |
|--|-----------|
| MGMT-4510 Strategic Management..... | 3 |
| MGMT4530 Industrial Relations Management..... | 3 |
| History Elective | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Electives | 3 |
| Total | 14 |



Marketing

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

Course requirements involve 63 semester hours including:

| | |
|---|-----------|
| ACCT-2110 Principles of Accounting I | 3 |
| ACCT-2120 Principles of Accounting II | 3 |
| BUS-2150 Statistics for Business | 3 |
| BUS-2180 Business Law I | 3 |
| BUS-3000 The Business Experience | 1 |
| BUS-3910 International Business | 3 |
| BUS-4420 Business Ethics and Social Responsibility | 2 |
| ECON-2330 Microeconomics | 3 |
| ECON-2340 Macroeconomics | 3 |
| ENTR-1010 Creative Problem-Solving | 2 |
| FIN-3710 Principles of Finance | 3 |
| ITM-1510 Software Tools for Business | 2 |
| MGMT-3500 Principles of Organization and Management | 3 |
| *MGMT-4510 Strategic Management | 3 |
| MRKT-3410 Topics in Marketing | 2 |
| MRKT-3600 Principles of Marketing | 3 |
| MRKT-3630 Marketing Research | 3 |
| MRKT-3650 Consumer Behavior | 3 |
| MRKT-4610 Marketing Strategy | 3 |
| Marketing electives..... | 12 |
| MRKT-3XXX or 4XXX electives (including MRKT-3410) | 12 |

*Capstone Course

| | |
|---------------------------------|----------|
| Required Cognate..... | 3 |
| GMTH-1020 College Algebra | 3 |

(Satisfies quantitative requirement for general education core.)

Marketing Major Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0–4 |
| General Education Requirements | 48–56 |
| Marketing Major Requirements..... | 63 |
| Required Cognate..... | 3 |
| Electives | 6–14 |
| Total (minimum, not including proficiency) | 128 |



A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Marketing

First Year:

| | |
|---|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech | 3 |
| ENG-1400 Composition | 3 |
| ENTR-1010 Creative Problem-Solving | 2 |
| 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 |
| Social Science Elective | 3 |
| Total | 32 |

Second Year:

| | |
|---|-----------|
| 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-2150 Statistics for Business | 3 |
| BUS-2180 Business Law I | 3 |
| ECON-2330 Microeconomics | 3 |
| ECON-2340 Macroeconomics | 3 |
| MRKT-3600 Principles of Marketing | 3 |
| History Elective | 3 |
| LIT-2XXX Literature Elective | 3 |
| Total | 33 |

Third Year:

| | |
|---|-----------|
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| BUS-3000 The Business Experience | 1 |
| BUS-3910 International Business | 3 |
| FIN-3710 Principles of Finance | 3 |
| MGMT-3500 Principles of Management | 3 |
| MRKT-3410 Topics in Marketing | 2 |
| MRKT-3630 Marketing Research | 3 |
| MRKT-3650 Consumer Behavior | 3 |
| Marketing Electives | 6 |
| PEF-1990 Physical Activity and Healthy Living | 2 |
| Total | 32 |

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 |
| Electives | 14 |
| Total | 31 |



Suggested Three-Year Curriculum for a Major in Marketing

Fall Year 1:

| | |
|---|-----------|
| ACCT-2110 Principles of Accounting I..... | 3 |
| BTGE-1725 The Bible and the Gospel | 3 |
| ECON-2330 Microeconomics | 3 |
| ENG-1400 Composition..... | 3 |
| ENTR-1010 Creative Problem-Solving..... | 2 |
| GMTH-1020 College Algebra..... | 3 |
| Total | 17 |

Spring Year 1:

| | |
|--|-----------|
| ACCT-2120 Principles of Accounting II | 3 |
| BTGE-2730 Old Testament Literature..... | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ITM-1510 Software Tools for Business..... | 2 |
| MRKT-3600 Principles of Marketing | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Total | 16 |

Summer Year 1:

| | |
|---|-------------|
| BTGE-2740 New Testament Literature | 3 |
| BUS-2150 Statistics for Business | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| Physical Science Elective..... | 3.5 |
| Elective | 3 |
| Total | 15.5 |

Fall Year 2:

| | |
|---|-----------|
| ECON-2340 Macroeconomics..... | 3 |
| MRKT-3650 Consumer Behavior | 3 |
| MGMT-3500 Principles of Organization and Management | 3 |
| Marketing Electives | 3 |
| Electives | 5 |
| Total | 17 |

Spring Year 2:

| | |
|--|-----------|
| BTGE-3755 Theology I..... | 3 |
| BUS-2180 Business Law I | 3 |
| BUS-3000 The Business Experience | 1 |
| FIN-3710 Principles of Finance..... | 3 |
| MRKT-3630 Marketing Research..... | 3 |
| Marketing Electives | 3 |
| Total | 16 |

Summer Year 2:

| | |
|--|-------------|
| BTGE-3765 Theology II | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| MRKT-3410 Topics in Marketing | 2 |
| Biology Elective | 3.5 |
| Humanities Elective | 3 |
| Electives | 1 |
| Total | 15.5 |

Fall Year 3:

| | |
|---|-----------|
| BUS-3910 International Business..... | 3 |
| BUS-4420 Business Ethics and Social Responsibility..... | 2 |
| MGMT-4510 Strategic Management..... | 3 |
| MRKT-3XXX Marketing Electives | 3 |
| LIT-2XXX Literature Elective | 3 |
| Elective | 2 |
| Total | 16 |

Spring Year 3:

| | |
|--|-----------|
| MRKT-4610 Marketing Strategy..... | 3 |
| MRKT-3XXX/4XXX Marketing Electives | 3 |
| History Elective | 3 |
| Social Sciences Elective | 3 |
| Electives | 3 |
| Total | 15 |



Sport Business Management

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

Course requirements involve 63 semester hours including:

| | |
|--|--------------|
| ACCT-2110 Principles of Accounting I | 3 |
| BUS-2100 Business Communication..... | 3 |
| BUS-2150 Statistics for Business | 3 |
| BUS-3000 The Business Experience | 1 |
| BUS-3910 International Business..... | 3 |
| BUS-4420 Business Ethics and Social Responsibility..... | 2 |
| ECON-2110 Essentials of Economics | 3 |
| ENTR-1010 Creative Problem-Solving | 2 |
| FIN-3710 Principles of Finance..... | 3 |
| ITM-1510 Software Tools for Business..... | 2 |
| MGMT-3500 Principles of Organization and Management | 3 |
| MGMT-4550 Applied Leadership | 3 |
| MRKT-3600 Principles of Marketing | 3 |
| SMGT-2100 Sport in Society | 3 |
| SMGT-2500 Organizational Behavior in Sport | 3 |
| SMGT-2910 Campus Sport Business Management Practicum | 1 |
| SMGT-2920 Sport Business Management Practicum | 1 |
| SMGT-3180 Legal Issues in the Sport Industry | 3 |
| SMGT-3200 Facility Design and Management | 3 |
| SMGT-3300 Event Planning and Production | 3 |
| SMGT-4100 Sponsorship and Promotion in the Sport Industry | 3 |
| SMGT-4200 Financing Sport Operations | 3 |
| *SMGT-4990 Internship in Sport Business Management | 6 |
| Required Cognate..... | 3 |
| GMTH-1020 College Algebra..... | 3 |
| (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..... | 63 |
| Required Cognate..... | 3 |
| Electives | 6–14 |
| Total (minimum, not including proficiency) | 128 |



A complete description of the general education requirements is found on page 26.

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

First Year:

| | |
|--|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| ENTR-1010 Creative Problem-Solving | 2 |
| GBIO-1000 Principles of Biology | 3.5 |
| GMTH-1020 College Algebra..... | 3 |
| ITM-1510 Software Tools for Business..... | 2 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| SMGT-2100 Sport in Society | 3 |
| Physical Science Elective | 3.5 |
| Electives | 5 |
| Total | 33 |

Second Year:

| | |
|--|-----------|
| ACCT-2110 Principles of Accounting I..... | 3 |
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| 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..... | 3 |
| SMGT-2910 Campus Sport Business Management Practicum | 1 |
| SMGT-2920 Sport Business Management Practicum | 1 |
| History Elective | 3 |
| Humanities Elective | 3 |
| Total | 32 |

Third Year:

| | |
|---|-----------|
| BTGE-3755 Theology I..... | 3 |
| BTGE-3765 Theology II | 3 |
| BUS-3000 The Business Experience | 1 |
| BUS-3910 International Business..... | 3 |
| FIN-3710 Principles of Finance..... | 3 |
| GSS-1100 Politics and American Culture | 3 |
| MGMT-3500 Principles of Organization and Management | 3 |
| MRKT-3600 Principles of Marketing | 3 |
| SMGT-3180 Legal Issues in the Sport Industry | 3 |
| SMGT-3200 Facility Design and Management | 3 |
| SMGT-3300 Event Planning and Production | 3 |
| LIT-2XXX Literature Elective | 3 |
| Total | 34 |

Fourth Year:

| | |
|--|-----------|
| BUS-4420 Business Ethics and Social Responsibility..... | 2 |
| MGMT-4550 Applied Leadership | 3 |
| SMGT-4100 Sponsorship and Promotions in the Sport Industry | 3 |
| SMGT-4200 Financing Sport Operations | 3 |
| SMGT-4990 Internship in Sport Business Management | 6–12 |
| Social Sciences Elective | 3 |
| Electives | 3–9 |
| Total | 29 |



Minors

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

Accounting Minor

| | |
|--|---|
| The minor in accounting involves 18 semester hours including: | |
| ACCT-2110 Principles of Accounting I..... | 3 |
| ACCT-2120 Principles of Accounting II | 3 |
| ACCT-3110 Intermediate Financial Accounting I..... | 3 |
| ACCT-3120 Intermediate Financial Accounting II..... | 3 |
| ACCT-4110 Federal Income Tax..... | 3 |
| ACCT-3000/4000 Accounting Electives | 3 |

Business Administration Minor

The minor in **business administration** for the non-business major involves 17 semester hours including:

| | |
|--|---|
| ACCT-2110 Principles of Accounting I..... | 3 |
| ITM-1510 Software Tools for Business..... | 2 |
| MGMT-3500 Principles of Organization and Management | 3 |
| MRKT-3600 Principles of Marketing | 3 |
| *Business Administration 2000-, 3000-, 4000-level electives ..6 | |

*Students must meet all prerequisites for selected courses

Business Analytics Minor

The minor in **business analytics** involves 18 semester hours including:

| | |
|---|---|
| *BUS-2170 Introduction to Business Analytics | 3 |
| *BUS/ITM-4150 Advanced Business Analytics and Visualization ..3 | |
| *ECON-4110 Introduction to Econometrics..... | 3 |
| *ITM-2100 Database Management..... | 3 |
| Electives selected from.....6 | |

| | |
|---|---|
| *ACCT-4170 Advanced Managerial Accounting | 3 |
| BRDM-3611 Web Analytics | 3 |
| *BUS-3150 Operations Analysis..... | 3 |
| *ITM-3600 Business Process Management | 3 |
| *MGMT-4570 Lean Operations Management | 3 |

*This course has an additional Robert W. Plaster School of Business pre-requisite.
Students outside the SBA must meet these pre-requisites.

Construction Management Minor

The minor in construction management involves 15 semester hours including:

| | |
|--|---|
| MGMT-3650 Construction Materials and Methods | 3 |
| MGMT-3560 Project Management..... | 3 |
| MGMT-3690 Construction Contracts and Delivery Methods..... | 3 |
| MGMT-4580 Construction Planning and Scheduling..... | 3 |
| MGMT-4590 Construction Estimating | 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 | 3 |
| ECON-3350 Comparative Economic Systems | 3 |
| 3000- or 4000-Level Elective in Economics..... | 3 |

Entrepreneurship Minor

The minor in **entrepreneurship** involves 15 semester hours including:

| | |
|--|------|
| ENTR-1010 Creative Problem-Solving | 2 |
| ENTR-1020 Introduction to Entrepreneurship | 2 |
| ENTR-2030 Entrepreneurship Finance | 2 |
| ENTR-3070 Entrepreneurship Accelerator I | 2 |
| ENTR-3010 Digital Marketing: Content Creation | 3 |
| (or ENTR-3020 Digital Marketing: Brand Advertising ..) | 3 |
| Select from the following..... | 4 |
| ENTR-2040 Social Enterprising | 2 |
| *ENTR-3010 Digital Marketing: Content Creation | 3 |
| (or ENTR-3020 Digital Marketing: Brand Advertising ..) | 3 |
| ENTR-3040 Entrepreneurship Practicum..... | 1-12 |
| **ENTR-3080 Entrepreneurship Accelerator II | 2 |
| **ENTR-3090 Entrepreneurship Accelerator III | 2 |
| ENTR-3410 Special Topics in Entrepreneurship | 1-3 |
| ENTR-3510 Entrepreneurship and Small Business Management | 3 |

*Select course not chosen as part of the minor core

**Participation in these courses is a competitive process that requires SBA approval.

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 |
| FIN-3750 International Finance | 3 |
| MRKT-4620 International Marketing | 3 |

At least three hours from the following ..3

| | |
|---|---|
| ANTH-1800 Cultural Anthropology | 3 |
| BTPA-2260 World Religions | 3 |
| POLS-3650 International Relations | 3 |

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 Management.... | 3 |
| MRKT-3600 Principles of Marketing | 3 |

At least six hours from the following ..6

| | |
|---|---|
| ECON-3350 Comparative Economic Systems | 3 |
| ECON-3360 International Trade and Economics | 3 |
| MRKT-4620 International Marketing | 3 |
| Additional electives selected from courses listed above ..6 | |

Information Technology Management Minor

| | |
|---|---|
| The minor in information systems involves 22 semester hours including: | |
| ACCT-2110 Principles of Accounting I..... | 3 |
| MGMT-3500 Principles of Organization and Management | 3 |
| ITM-1510 Software Tools for Business..... | 2 |
| ITM-1900 Fundamentals of IT Management..... | 3 |
| ITM-2100 Database Management | 3 |
| ITM-2300 Intro to Programming | 3 |
| (or ITM-3XXX ITM elective.....) | 3 |
| ITM-3400 Data Communications and Networking | 3 |
| ITM-3410 Topics in Information Technology Management..... | 2 |
| OR ENTR-1020 Introduction to Entrepreneurship..... | 2 |



Marketing Minor

The minor in **marketing** involves 15 semester hours including:

| | |
|---|----------|
| MRKT-3600 Principles of Marketing | 3 |
| MRKT-3650 Consumer Behavior | 3 |
| Electives selected from | 9 |

| | |
|--|---|
| *MRKT-3630 Marketing Research..... | 3 |
| MRKT-3660 Integrated Marketing Communications..... | 3 |
| MRKT-3680 Nonprofit Marketing | 3 |
| MRKT-3690 Services Marketing | 3 |
| MRKT-4620 International Marketing | 3 |

*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.

Course requirements for a minor in sport management involve 15 semester hours including:

| | |
|---|---|
| SMGT-3200 Facility Design and Management | 3 |
| SMGT-3300 Event Planning and Production | 3 |
| SMGT-4100 Sponsorship and Promotion in the Sport Industry | 3 |

| | |
|---|----------|
| Two courses selected from the following..... | 6 |
|---|----------|

| | |
|--|---|
| SMGT-2100 Sport in Society..... | 3 |
| SMGT-2500 Organizational Behavior in Sport | 3 |
| SMGT-3180 Legal Issues in the Sport Industry | 3 |
| SMGT-4200 Financing Sport Operations | 3 |





Communication

Mission Statement

The Department of Communication in the Robert W. Plaster School of Business 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.

Programs of Study

The Department of Communication offers the following programs of study:

Majors

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

Minors

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

Personal Requirements

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

Department Requirements

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

Technical Resources

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

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

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

Cocurricular Opportunities

Cedars

Cedars is a student-produced newspaper and website with opportunities for editors, print reporters, multimedia reporters, photographers and graphic designers.

Debate

Cedarville University has a successful debate team currently competing in the International Parliamentary Debate Association. Scholarships are available.

Speech Team

Cedarville University has a successful individual events team. Cedarville has been state champions in Ohio as well as national champions in the National Christian College Forensics Association. Scholarships are available.

Lambda Pi Eta

Lambda Pi Eta is the official honor society of the National Communication Association. The purpose is to promote outstanding academic achievement in the Communication discipline. In order to be eligible students must be in good standing with the University, complete 60 credit hours of coursework (12 credit hours in the major), and maintain a cumulative GPA of 3.0 (3.25 in coursework within the major).

Society for Professional Writing

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

Resound Radio

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



Career Opportunities

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

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

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

Other career opportunities include:

- Actor
- Advertising executive
- Anchorperson
- Business manager
- Communication consultant
- Communication statistician
- Community relations director
- Customer service representative
- Development officer
- Film director
- Fund raiser
- Health services manager
- Human rights officer
- Journalist
- Labor relations consultant
- Legal communication consultant
- Legislative correspondent
- Mediation specialist
- News director
- Nonprofit organization director
- Political campaign director
- Political analyst
- Politician
- Publications editor
- Public information officer
- Publicist
- Radio talk-show host
- Recording company executive
- Sales/marketing rep.
- Seminar leader
- Sports announcer
- Technical communication
- Technical marketing communication
- Web design

Faculty

Derrick Green, Chair; Assistant Professor of Communication. *Education:* BA, Cedarville University, 1997; MA, Miami University, 1999. At Cedarville since 2002.

Jeffrey Simon, Assistant Chair, Associate Professor of Communication. *Education:* BA, Cedarville University, 2006; MFA, Academy of Art University, 2013. At Cedarville since 2010.

Nicholas Carrington, Associate Professor of Professional Writing. *Education:* BA, Cedarville University, 2010; MA, Missouri State University, 2012; PhD, Texas Tech University, 2020. At Cedarville since 2012.

Charles Elliott, Senior Professor of Communication. *Education:* BA, Cedarville University, 1977; MA, Temple University, 1984; PhD, Temple University, 1994. At Cedarville since 2003.

Daniel Fultz, Professor of Communication. *Education:* AA, Rhodes State College, 1993; BA, Bluffton University, 1998; MA, Bluffton University, 2003; PhD, Bowling Green State University, 2010. At Cedarville since 2019.

Jeffrey Gilbert, Assistant Professor of Journalism, Cedars Advisor. *Education:* BA, Cedarville University, 1987; MA, Regent University, 2014. At Cedarville since 2009.

Andrew Harris, Associate Professor of Communication. *Education:* BA, Pensacola Christian College, 2004; MA, Pensacola Christian College, 2006; PhD, Regent University, 2013. At Cedarville since 2017.

Heather Heritage, Assistant Professor of Communication. *Education:* BS, Youngstown State, 2002; MA, University of Dayton, 2011. At Cedarville since 2011.

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

Mischelle McIntosh, Associate Professor of Communication and Media Research. *Education:* BA, Cedarville University, 1977; MA, Pensacola Christian College, 1981; MA, University of West Florida, 1992. At Cedarville since 1999.

Eric Mishne, Assistant Professor of Communication; Director of Forensics. *Education:* BA, Cedarville University, 2008; MA, Western Michigan University, 2016; MA, Ohio University, 2018. At Cedarville since 2019.

Sean O'Conner, Assistant Professor of Broadcasting, Digital Media, and Journalism. *Education:* BA, Asbury University, 2014; MA, Asbury University, 2015; MFA, Asbury University, 2018. At Cedarville since 2019.

Tiffany Thomson, Assistant Professor of Communication. *Education:* BME, Cedarville University 1999; MA, The Ohio State University, 2004; PhD The Ohio State University, 2007. At Cedarville since 2023.

Jennifer Wingerter, Assistant Professor of Professional Writing. *Education:* BA, Cedarville University 2004; MA, The Ohio State University, 2009. At Cedarville since 2017.

Technical Support Staff

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

Emeriti

J. Wesley Baker, Distinguished Professor Emeritus of Communication. *Education:* BA, Bob Jones University, 1972; MA, University of South Carolina, 1980; PhD, The Ohio State University, 1991. At Cedarville since 1977.

Deborah Haffey, Senior Professor Emerita of Communication. *Education:* BA, Cedarville University, 1968; MA, The Ohio State University, 1969; PhD, The Ohio State University, 2002. At Cedarville since 1986.

Sandra Harner, Senior Professor Emerita of Technical Communication. *Education:* BA, Cedarville University, 1964; MA, University of Dayton, 1981. At Cedarville since 1981.

James Kragel, Associate Professor Emeritus of Communication. *Education:* BS, Mankato State University, 1977; MA, Wheaton College, 1984. At Cedarville since 1994.

Kurt Moreland, Associate Professor Emeritus of Communication. *Education:* BA, Cedarville University, 1976; MA, West Virginia University, 1978; all work completed for PhD except dissertation, Purdue University. At Cedarville since 1981.

James Phipps, Senior Professor Emeritus of Communication. *Education:* BA, Cedarville University, 1968; MA, The Ohio State University, 1970; PhD, The Ohio State University, 1975. At Cedarville since 1968.

Margaret Wheeler, Associate Professor Emerita of Communication. *Education:* BA, Cedarville University, 1964; MEd, Central State University, 1998. At Cedarville since 1995.



Broadcasting, Digital Media, and Journalism

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

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

Course requirements involve 53 semester hours — 32 semester hours of core courses that provide the student with an overview of these media and develop skills in common with all of them and a 21-hour concentration. The concentrations provide specialized courses in audio production, video/film production, and a program of study designed by the student and faculty members to meet his or her specific life goal.

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

Course requirements involve 54–55 semester hours including:

Core Requirements.....33

| | |
|--|-------------|
| BRDM-1110 Introduction to Broadcasting and Digital Media | 3 |
| BRDM-1120 Audio Production | 3 |
| BRDM-2110 Video Production | 3 |
| BRDM-2130 Writing for Digital Media | 3 |
| (or BRDM/JOUR-3605 Writing and Design for Web and Mobile Media | 3) |
| BRDM-2650 Introduction to Web Analytics and SEO | 1 |
| BRDM-2810 Sophomore Seminar | 1 |
| BRDM/JOUR-3150 Media Ethics..... | 3 |
| BRDM-3420 Media Management..... | 3 |
| BRDM/JOUR-3650 Networked Audience | 3 |
| BRDM-4110 Digital Media Law and Regulation | 3 |
| BRDM/JOUR-4650 Designing Solutions for New Audiences ... | 3 |
| BRDM-4810 Senior Seminar | 1 |
| Select one of the following, with approval of faculty | 3–12 |
| *BRDM-4920 Senior Project | 3 |
| *BRDM-4930 Internship | 3–12 |

Concentration selected from the following.....21

Digital Film and Video concentration.....21

| | |
|---|----------|
| BRDM-2320 Preproduction and Planning for Video/Film | 3 |
| BRDM-2350 Introduction to Motion Design..... | 3 |
| BRDM-3210 Digital Audio Post Production..... | 3 |
| (or BRDM-3216 Audio for Video and Film..... | 3) |
| (or THTR-2430 Acting I..... | 3) |
| BRDM-3310 Digital Film Production..... | 3 |
| BRDM-3390 Editing Theory and Practice | 3 |
| BRDM-4320 Directing the Narrative Film..... | 3 |
| (or BRDM-3330 Screenwriting | 4 |
| or BRDM-3370 Documentary Film-style Production..... | 3 |
| or BRDM-4310 Cinematography Theory and Practice | 3) |
| Practica – three hours selected from the following | 3 |
| *BRDM-3733 Sports Production Practicum | 1 |
| *BRDM-3735 Film/Video Practicum..... | 1 |

Digital Radio and Audio concentration.....21

| | |
|--|-----------|
| BRDM-2210 Media Performance | 3 |
| BRDM-2220 Sound Design..... | 3 |
| BRDM-3210 Digital Audio Post-Production | 3 |
| Electives selected from the following | 12 |
| BRDM-3216 Audio for Video/Film | 3 |
| BRDM-3410 Broadcasting and Digital Media Sales .. | 3 |
| +BRDM-3720 Audio Production Practicum..... | 1 |
| THTR-1410 Introduction to Theatre | 3 |
| THTR-2430 Acting I..... | 3 |

Integrated Digital Media concentration

| | |
|--|-----------|
| BRDM-3210 Digital Audio Post Production..... | 3 |
| BRDM-3310 Digital Film Production..... | 3 |
| Digital Media Electives | 15 |

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

Journalism concentration.....21

| | |
|--|---|
| JOUR-1000 Multiplatform Journalism I | 3 |
| JOUR-2000 Multiplatform Journalism II..... | 3 |
| JOUR-4910 Multiplatform Seminar | 3 |

Electives selected from the following

| | |
|---|---|
| BRDM-2210 Media Performance..... | 3 |
| BRDM-2320 Pre-Production and Planning for Video and Film..... | 3 |
| BRDM-3350 Documentary Films..... | 3 |
| BRDM-3370 Documentary Film-style Production | 3 |
| JOUR-3350 Television News Production | 3 |
| JOUR-3420 Editing and Design | 3 |
| JOUR-3900 Practicum in Journalism (repeatable) | 1 |
| JOUR-4420 Feature Reporting | 3 |
| JOUR-4600 Magazine Writing | 3 |
| JOUR-4610 Photojournalism..... | 3 |
| JOUR-4620 Data and Investigative Reporting..... | 3 |

*Capstone Course

+Repeatable

Broadcasting, Digital Media, and Journalism Major Curriculum Summary

| | |
|---|-------|
| Proficiency Requirements | 0–4 |
| General Education Requirements..... | 51–59 |
| Broadcasting, Digital Media, and Journalism | |

Major Requirements

Electives

Total (minimum, not including proficiency)

128

Electronic Media Advisory Board

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

A complete description of the general education requirements is found on page 26.

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

First Year:

| | |
|--|-------------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| BRDM-1110 Introduction to Broadcasting and Digital Media | 3 |
| BRDM-1120 Audio Production | 3 |
| ENG-1400 Composition..... | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Biological Science Elective..... | 3.5 |
| History Elective..... | 3 |
| Quantitative Elective | 3 |
| Total | 32.5 |

Second Year:

| | |
|--|-------------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| BRDM-2110 Video Production | 3 |
| BRDM-2810 Sophomore Seminar | 1 |
| BRDM-XXXX Writing Option..... | 3 |
| Concentration Requirements | 12 |
| Physical Science Elective | 3.5 |
| LIT-2XXX Literature Elective | 3 |
| Total | 31.5 |

Third Year:

| | |
|---|-----------|
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| BRDM-2650 Introduction to Web Analytics and SEO | 1 |
| BRDM-3150 Media Ethics | 3 |
| BRDM-3420 Media Management | 3 |
| BRDM-3650 Networked Audience | 3 |
| Concentration Requirements | 6 |
| Social Science/Global Awareness Elective | 3 |
| Electives | 7 |
| Total | 32 |

Fourth Year:

| | |
|---|-----------|
| BRDM-4110 Digital Media Law and Regulation | 3 |
| BRDM-4650 Designing Solutions for New Audiences | 3 |
| BRDM-4810 Senior Seminar | 1 |
| BRDM-4920 Senior Project | 3 |
| (or BRDM-4930 Internship | 3–12) |
| Concentration Requirements | 3 |
| Humanities Elective | 3 |
| Electives | 16 |
| Total | 32 |



Graduate Program Pathway Option for Broadcasting, Digital Media, and Journalism

The Bachelor of Arts in broadcasting, digital media, and journalism program offers accelerated pathways to the Master of Business Administration degree and the Advanced Master of Divinity degree. You may view a sample curriculum plan at cedarville.edu/gradpathways.

Communication

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

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

Course requirements involve 48 semester hours including:

| | |
|---|-----------|
| Communication requirements..... | 25 |
| COM-1150 Communication Seminar | 1 |
| COM-2050 Communication Theory | 3 |
| COM-2200 Communication in Applied Contexts | 3 |
| COM-2220 Quantitative Research..... | 3 |
| (or COM-2225 Qualitative Research.....) | 3) |
| COM-2330 Writing for Communication Professions..... | 3 |
| COM-3100 Advanced Public Speaking..... | 3 |
| COM-3240 Interpersonal Communication | 2 |
| COM-3710 Narrative and Cultural Literacy | 3 |
| COM-3840 Media Analysis | 3 |
| COM-4850 Senior Seminar | 1 |

| | |
|---|-----------|
| Concentration selected from the following..... | 23 |
|---|-----------|

| | |
|--|-----------|
| Advocacy Communication concentration..... | 23 |
| COM-2000 Persuasive Theory..... | 3 |
| COM-2300 Voices of Diversity | 3 |
| COM-3550 Advocacy Communication | 3 |
| COM-4610 Communication Ethics..... | 2 |
| COM-4950 Applied Capstone | 3 |
| *Electives | 9 |

*Electives are chosen by the student to meet his/her specific life goals in the area of advocacy and must be approved by the department chair and the student's advisor. No 1000-level courses may apply.

| | |
|--|-----------|
| Organizational Communication concentration..... | 23 |
|--|-----------|

| | |
|--|----|
| COM-3230 Organizational Communication | 3 |
| COM-3250 Interviewing | 3 |
| COM-3260 Organizational Negotiation | 3 |
| COM-4060 Organizational Leadership..... | 3 |
| COM-4610 Communication Ethics..... | 2 |
| COM-4950 Applied Capstone | 3 |
| MGMT-3500 Principles of Organization and Management..... | 3 |
| MGMT-3530 Human Resources Management..... | 3 |
| (or COM-3350 Event Planning | 3) |
| (or COM-3550 Advocacy Communication | 3) |

| | |
|---|-----------|
| Strategic Communication Concentration..... | 23 |
|---|-----------|

| | |
|---|----|
| COM-2520 Virtual Communication | 3 |
| COM-3350 Event Planning | 3 |
| (or COM-3550 Advocacy Communication | 3) |
| COM-4060 Organizational Leadership..... | 3 |
| COM-4610 Communication Ethics..... | 2 |
| COM-4950 Applied Capstone | 3 |

*Strategic Communication electives

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

Communication Major Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0–4 |
| General Education Requirements..... | 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 on page 26.

Suggested Four-Year Curriculum for a Major in Communication

First Year:

| | |
|--|-------------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| COM-1150 Communication Seminar | 1 |
| ENG-1400 Composition..... | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Biological Science Elective | 3.5 |
| History Elective | 3 |
| LIT-2XXX Literature Elective | 3 |
| Quantitative Elective | 3 |
| Total | 30.5 |

Second Year:

| | |
|---|-------------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| COM-2050 Communication Theory | 3 |
| COM-2200 Communication in Applied Contexts | 3 |
| COM-2220 Quantitative Research..... | 3 |
| (or COM-2225 Qualitative Research | 3) |
| COM-2330 Writing for Communication Professions..... | 3 |
| Physical Science Elective | 3.5 |
| Social Science/Global Awareness Elective | 3 |
| Communication Concentration | 8 |
| Total | 32.5 |

Third Year:

| | |
|--|-----------|
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| COM-3240 Interpersonal Communication | 2 |
| COM-3710 Narrative and Cultural Literacy | 3 |
| COM-3840 Media Analysis | 3 |
| Communication Concentration | 9 |
| Electives | 10 |
| Total | 33 |

Fourth Year:

| | |
|---|-----------|
| COM-3100 Advanced Public Speaking | 3 |
| COM-4850 Senior Seminar | 1 |
| Humanities Elective | 3 |
| Communication Concentration | 6 |
| Electives | 19 |
| Total | 32 |

**Suggested Three-Year Curriculum for a
Major in Communication
Advocacy Communication Concentration**

| | |
|---|-------------|
| <i>Fall Year 1:</i> | |
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| COM-1150 Communication Seminar | 1 |
| COM-2050 Communication Theory..... | 3 |
| ENG-1400 Composition..... | 3 |
| Electives | 3 |
| Total | 16 |
| <i>Spring Year 1:</i> | |
| BTGE-2730 Old Testament Literature..... | 3 |
| COM-2200 Communication in Applied Contexts | 3 |
| COM-2300 Voices of Diversity..... | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Electives | 6 |
| Total | 17 |
| <i>Summer Year 1:</i> | |
| BTGE-2740 New Testament Literature | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| LIT-2XXX Literature Elective | 3 |
| Physical Science Elective | 3.5 |
| Quantitative Elective | 3 |
| Total | 15.5 |
| <i>Fall Year 2:</i> | |
| COM-2000 Persuasive Theory | 3 |
| COM-2220 Quantitative Research..... | 3 |
| COM-2330 Writing for Communication Professions..... | 3 |
| COM-3840 Media Analysis | 3 |
| Electives | 4 |
| Total | 16 |
| <i>Spring Year 2:</i> | |
| BTGE-3755 Theology I..... | 3 |
| COM-3240 Interpersonal Communication | 2 |
| COM-4610 Communication Ethics | 2 |
| Advocacy Communication Electives..... | 3 |
| Electives | 6 |
| Total | 16 |
| <i>Summer Year 2:</i> | |
| BTGE-3765 Theology II | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| Biology Elective | 3.5 |
| Humanities Elective | 3 |
| Elective | 3 |
| Total | 15.5 |
| <i>Fall Year 3:</i> | |
| COM-3710 Narrative and Cultural Literacy | 3 |
| COM-3550 Advocacy Communication..... | 3 |
| Advocacy Communication Electives | 6 |
| Social Science Elective | 3 |
| Electives | 1 |
| Total | 16 |
| <i>Spring Year 3:</i> | |
| COM-3100 Advanced Public Speaking..... | 3 |
| COM-4850 Senior Seminar | 1 |
| COM-4950 Applied Capstone | 3 |
| History Elective | 3 |
| Electives | 6 |
| Total | 16 |

**Suggested Three-Year Curriculum for a
Major in Communication
Organizational Communication Concentration**

| | |
|---|-------------|
| <i>Fall Year 1:</i> | |
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| COM-1150 Communication Seminar | 1 |
| COM-2050 Communication Theory | 3 |
| ENG-1400 Composition..... | 3 |
| Electives | 3 |
| Total | 16 |
| <i>Spring Year 1:</i> | |
| BTGE-2730 Old Testament Literature..... | 3 |
| COM-2200 Communication in Applied Contexts | 3 |
| COM-3230 Organizational Communication | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Electives | 6 |
| Total | 17 |
| <i>Summer Year 1:</i> | |
| BTGE-2740 New Testament Literature | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| LIT-2XXX Literature Elective | 3 |
| Physical Science Elective | 3.5 |
| Quantitative Elective | 3 |
| Total | 15.5 |
| <i>Fall Year 2:</i> | |
| COM-2220 Quantitative Research..... | 3 |
| COM-2330 Writing for Communication Professions..... | 3 |
| COM-4610 Communication Ethics | 2 |
| COM-3840 Media Analysis | 3 |
| Electives | 5 |
| Total | 16 |
| <i>Spring Year 2:</i> | |
| BTGE-3755 Theology I..... | 3 |
| COM-3240 Interpersonal Communication | 2 |
| COM-3250 Interviewing | 3 |
| MGMT-3500 Principles of Organization and Management | 3 |
| Electives | 6 |
| Total | 17 |
| <i>Summer Year 2:</i> | |
| BTGE-3765 Theology II | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| Biology Elective | 3.5 |
| Humanities Elective | 3 |
| Global Awareness Elective | 3 |
| Total | 15.5 |
| <i>Fall Year 3:</i> | |
| COM-3260 Organizational Negotiation..... | 3 |
| COM-3710 Narrative and Cultural Literacy | 3 |
| COM-4060 Organizational Leadership | 3 |
| MGMT-3530 Human Resources Management | 3 |
| Social Sciences Elective | 3 |
| Total | 15 |
| <i>Spring Year 3:</i> | |
| COM-3100 Advanced Public Speaking | 3 |
| COM-4850 Senior Seminar | 1 |
| COM-4950 Applied Capstone | 3 |
| History Elective | 3 |
| Electives | 6 |
| Total | 16 |

Suggested Three-Year Curriculum for a Major in Communication Strategic Communication Concentration

| | |
|---|-------------|
| <i>Fall Year 1:</i> | |
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| COM-1150 Communication Seminar | 1 |
| COM-2050 Communication Theory..... | 3 |
| ENG-1400 Composition..... | 3 |
| Electives | 3 |
| Total | 16 |
| <i>Spring Year 1:</i> | |
| BTGE-2730 Old Testament Literature..... | 3 |
| COM-2200 Communication in Applied Contexts | 3 |
| COM-3350 Event Planning..... | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Electives | 6 |
| Total | 17 |
| <i>Summer Year 1:</i> | |
| BTGE-2740 New Testament Literature | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| LIT-2XXX Literature Elective | 3 |
| Physical Science Elective | 3.5 |
| Quantitative Elective | 3 |
| Total | 15.5 |
| <i>Fall Year 2:</i> | |
| COM-2220 Quantitative Research..... | 3 |
| COM-2330 Writing for Communication Professions..... | 3 |
| COM-3840 Media Analysis | 3 |
| COM-4060 Organizational Leadership | 3 |
| Electives | 4 |
| Total | 16 |
| <i>Spring Year 2:</i> | |
| BTGE-3755 Theology I..... | 3 |
| COM-3240 Interpersonal Communication | 2 |
| COM-4610 Communication Ethics | 2 |
| Strategic Communication Electives | 3 |
| Electives | 6 |
| Total | 16 |
| <i>Summer Year 2:</i> | |
| BTGE-3765 Theology II | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| Biology Elective | 3.5 |
| Humanities Elective | 3 |
| Global Awareness Elective | 3 |
| Total | 15.5 |
| <i>Fall Year 3:</i> | |
| COM-2520 Virtual Communication..... | 3 |
| COM-3710 Narrative and Cultural Literacy..... | 3 |
| Strategic Communication Electives | 6 |
| Social Science Elective | 3 |
| Electives | 1 |
| Total | 16 |
| <i>Spring Year 3:</i> | |
| COM-3100 Advanced Public Speaking..... | 3 |
| COM-4850 Senior Seminar | 1 |
| COM-4950 Applied Capstone | 3 |
| History Elective..... | 3 |
| Electives | 6 |
| Total | 16 |

Graduate Program Pathway Option for Communication

The Bachelor of Arts in communication program offers accelerated pathways to the Master in Business Administration degree and the Advanced Master of Divinity degree. You may view a sample curriculum plan at cedarville.edu/gradpathways.



Professional Writing and Information Design

The professional writing and information design major prepares students for positions as communication experts in a variety of industries. The major itself involves 61 semester hours in specific professional writing and information design courses.

| | |
|--|-----------|
| Professional Writing and Information Design Core | 64 |
| ENG-3070 English Grammar..... | 3 |
| PWID-2130 Introduction to Professional Writing | 3 |
| PWID-3010 Style and Mechanics for Writers | 3 |
| PWID-3020 Professional Portfolio Development I | 1 |
| PWID-3050 Writing for the User Experience | 3 |
| PWID-3090 Copywriting | 3 |
| PWID-3170 The Professional Writer in a Corporate Culture | 2 |
| PWID-3180 Visual Rhetoric for Information Designers | 3 |
| PWID-3210 Professional Editing..... | 3 |
| PWID-3250 Writing and Designing Documentation | 3 |
| PWID-3320 Editing for Publishing Contexts..... | 3 |
| PWID-4020 Professional Portfolio Development II | 1 |
| PWID-4050 Writing and Strategy for the Web..... | 3 |
| PWID-4120 Writing for Industries | 3 |
| PWID-4130 Instructional Design I | 3 |
| PWID-4140 Instructional Design II | 3 |
| PWID-4150 Writing for Publications..... | 3 |
| PWID-4160 Professional Writing Internship | 3 |
| *PWID-4170 Professional Writing Capstone | 3 |
| VCD-1050 Applied Design: Tech Tools I..... | 3 |
| VCD-2600 Web Design I..... | 3 |
| Electives selected from the following..... | 6 |
| BRDM-3611 Web Analytics | 3 |
| COM-2050 Communication Theory | 3 |
| COM-2140 Intercultural Communication | 3 |
| COM-3100 Advanced Public Speaking | 3 |
| ENG-2230 Advanced Composition | 3 |
| JOUR-2500 Introduction to Public Relations..... | 3 |
| *Capstone Course | |

Professional Writing and Information Design Major Curriculum Summary

| | |
|--|------------|
| Proficiency Requirements | 0-4 |
| Other General Education Requirements..... | 51-59 |
| Professional Writing and Information Design Requirements | 64 |
| Electives | 5-13 |
| 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 26.

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

First Year:

| | |
|--|-------------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| ENG-3070 English Grammar..... | 3 |
| GBIO-1000 Principles of Biology | 3.5 |
| GSS-1100 Politics and American Culture..... | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| LIT-2XXX Literature Elective | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| PWID-3010 Style and Mechanics for Writers | 3 |
| Quantitative Elective | 3 |
| Total | 32.5 |

Second Year:

| | |
|--|-----------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| PWID-2130 Introduction to Professional Writing | 3 |
| PWID-3020 Professional Portfolio Development I | 1 |
| PWID-3170 The Professional Writer in a Corporate Culture | 2 |
| PWID-3210 Professional Editing..... | 3 |
| PWID-3250 Writing and Designing Documentation | 3 |
| PWID Electives | 3 |
| VCD-1050 Applied Design: Tech Tools I..... | 3 |
| Humanities Elective | 3 |
| Electives | 5 |
| Total | 32 |

Summer:

| | |
|---|----------|
| PWID-4160 Professional Writing Internship | 3 |
| Total | 3 |

Third Year:

| | |
|---|-------------|
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| PWID-3090 Copywriting | 3 |
| PWID-3180 Visual Rhetoric for Information Designers | 3 |
| PWID-4050 Writing and Strategy for the Web | 3 |
| PWID Electives | 3 |
| VCD-2600 Web Design I | 3 |
| History Elective | 3 |
| Physical Science Elective | 3.5 |
| Social Science/Global Awareness Elective | 3 |
| Total | 30.5 |

Fourth Year:

| | |
|---|-----------|
| PWID-3050 Writing for the User Experience | 3 |
| PWID-3320 Editing for Publishing Contexts | 3 |
| PWID-4020 Professional Portfolio Development II | 1 |
| PWID-4120 Writing for Industries | 3 |
| PWID-4130 Instructional Design I | 3 |
| PWID-4140 Instructional Design II | 3 |
| PWID-4150 Writing for Publications | 3 |
| PWID-4170 Professional Writing Capstone | 3 |
| Electives | 8 |
| Total | 30 |

Graduate Program Pathway Option for Professional Writing and Information Design

The Bachelor of Arts in professional writing and information design program offers an accelerated pathway to the Master of Business Administration degree. You may view a sample curriculum plan at cedarville.edu/gradpathways.



Minors

Broadcasting and Digital Media Minor

Course requirements for the minor in **broadcasting and digital media** involve 15 semester hours:

| | |
|--|---|
| BRDM-1110 Introduction to Broadcasting and Digital Media | 3 |
| BRDM-1120 Audio Production | 3 |
| BRDM-2110 Video Production | 3 |
| BRDM-2130 Writing for Digital Media | 3 |
| (or BRDM-3605 Writing and Design for Web and Mobile Media.. 3) | |
| BRDM-XXXX Broadcasting and Digital Media Electives | 3 |

Comprehensive Communication Arts Minor

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

| | |
|--|---|
| COM-2000 Persuasive Theory | 3 |
| COM-2050 Communication Theory..... | 3 |
| COM-2200 Communication in Applied Contexts | 3 |
| COM-3100 Advanced Public Speaking..... | 3 |
| COM-3240 Interpersonal Communication | 2 |
| COM-4110 History of Public Address..... | 3 |
| COM-4120 Contemporary Rhetoric..... | 2 |

Digital Video Minor

Course requirements for the minor in digital film involve 18 semester hours selected from the following courses:

| | |
|--|----|
| BRDM-1120 Audio Production | 3 |
| BRDM-2110 Video Production | 3 |
| BRDM-2320 Preproduction and Planning for Film/Video..... | 3 |
| BRDM-2350 Introduction to Motion Design | 3 |
| BRDM-3310 Digital Film Production | 3 |
| BRDM-4310 Cinematography Theory and Practice | 3 |
| (or BRDM-3370 Documentary Film-style Production | 3) |

Editing and Publishing Minor

The **editing and publishing minor** is designed to prepare students for careers in the publishing field. Course requirements involve 21 credit hours including:

| | |
|--|---|
| CWRT-2220 Introduction to Creative Writing | 3 |
| ENG-3070 English Grammar..... | 3 |
| PWID-3010 Style and Mechanics for Writers | 3 |
| PWID-3210 Professional Editing..... | 3 |
| PWID-3320 Editing in Publishing Contexts..... | 3 |
| PWID-4150 Writing for Publications..... | 3 |
| VCD-1050 Applied Design: Tech Tools I..... | 3 |

Intercultural Communication Minor

Course requirements for the minor in **intercultural communication** involve 17 semester hours selected from the following courses:

| | |
|---|---|
| COM-2050 Communication Theory..... | 3 |
| COM-2140 Intercultural Communication..... | 3 |
| COM-2300 Voices Of Diversity | 3 |
| COM-3240 Interpersonal Communication | 2 |
| COM-3710 Narrative and Cultural Literacy..... | 3 |

| | |
|--|----------|
| One of the following courses | 3 |
| BTPA-2260 World Religions | 3 |
| PYCH-1800 Cross-Cultural Psychology | 3 |
| A departmental approved CU Study Abroad course | 3 |

Motion Graphics Minor

Course requirements for the minor in **motion graphics** involve 17 semester hours selected from the following courses:

| | |
|--|----------|
| BRDM-2350 Introduction to Motion Design | 3 |
| BRDM-2606 Introduction to Computer Animation..... | 2 |
| BRDM-3355 VFX and Compositing for TV and Film..... | 3 |
| BRDM-3630 Principles of Computer Animation..... | 3 |
| VCD-1050 Applied Design: Tech Tools I..... | 3 |
| Production Electives selected from | 3 |

| | |
|---|---|
| BRDM-2110 Video Production..... | 3 |
| BRDM-2320 Preproduction Planning for Video and Film | 3 |

Organizational Communication Minor

Course requirements for the minor in **organizational communication** involve 17 semester hours selected from the following courses:

| | |
|---|-----------|
| COM-2050 Communication Theory..... | 3 |
| COM-3230 Organizational Communication | 3 |
| Electives selected from the following | 11 |
| BRDM-3611 Web Analytics | 3 |
| COM-2200 Communication in Applied Contexts..... | 3 |
| COM-3240 Interpersonal Communication..... | 2 |
| COM-3250 Interviewing | 3 |
| COM-3260 Organizational Negotiation | 3 |
| COM-3330 Organizational Training..... | 2 |
| COM-3350 Event Planning | 3 |
| COM-4060 Organizational Leadership..... | 3 |
| MGMT-3500 Principles of Organization and Management.... | 3 |

Public Relations Minor

Course requirements for the minor in **public relations** involve 19 semester hours selected from the following courses:

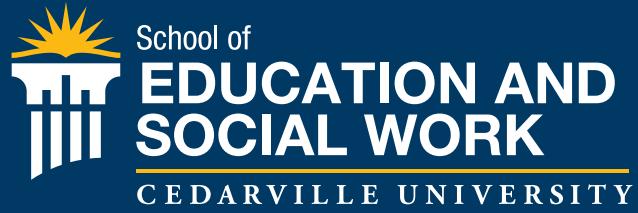
| | |
|--|----------|
| JOUR-1000 Multiplatform Journalism I..... | 3 |
| JOUR-2500 Introduction to Public Relations | 3 |
| JOUR-3500 Public Relations Principles and Writing..... | 3 |
| JOUR-4500 Public Relations Campaigns | 3 |
| JOUR-4550 Practicum in Public Relations | 1 |
| MRKT-3600 Principles of Marketing | 3 |
| Electives selected from the following | 3 |
| BRDM-3611 Web Analytics | 3 |
| COM-2000 Persuasive Theory..... | 3 |
| COM-3230 Organizational Communication | 3 |
| COM-3350 Event Planning | 3 |
| COM-3550 Advocacy Communication | 3 |

Writing for the Professions Minor

The **writing for the professions minor** is designed to prepare students from a variety of majors to be better writers and to acquire the professional skills required in a corporate setting.

Course requirements involve 18 credit hours including:

| | |
|--|----------|
| PWID-3010 Style and Mechanics for Writers | 3 |
| PWID-3090 Copywriting | 3 |
| PWID-3250 Writing and Designing Documentation | 3 |
| PWID-4150 Writing for Publications | 3 |
| Two courses selected from the following | 6 |
| PWID-3050 User Experience for the Web | 3 |
| PWID-4050 Writing and Strategy for the Web | 3 |
| PWID-4130 Instructional Design I..... | 3 |
| PWID-4140 Instructional Design II..... | 3 |



Dr. Kevin M. Jones, Sr., *Dean*

| | |
|---|-----|
| Education | 143 |
| Majors | |
| Middle Childhood Education | 145 |
| Primary (P-5) Education..... | 147 |
| Special Education — Intervention Specialist | 149 |
| Adolescent/Young Adult and Multi-Age Licensure Programs..... | 152 |

| | |
|-------------------------|-----|
| Social Work..... | 153 |
| Majors | |
| Social Work..... | 154 |

Education

Mission Statement

The Education programs in the Cedarville University School of Education and Social Work seek 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 Council for the Accreditation of Teacher Preparation (CAEP). 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.

Teacher candidates who successfully complete the Cedarville University Teacher Education Program, all required licensure exams, application to the state of Ohio, and who have been awarded a degree by Cedarville University will obtain licensure in the state of Ohio. They are also eligible to apply for Association of Christian Schools International (ACSI) certification. Cedarville University's School of Education licensure staff will guide teacher candidates through the licensure process during their final semester.

The state of Ohio license may be transferred to any state within the United States, providing all requirements are met for that state. In many cases, students must meet additional requirements (such as additional licensure exams) to obtain licensure for that state. Information regarding each state's requirements can be found on that state's Department of Education website. It is important to note that state requirements for licensure transfer often change and information for license transfer should be researched within the year of transfer.

Demographic Profile

The demographic profile of program enrollees for the 2022–2023 reporting period is:

| | |
|--------------------------|-----|
| African-American | 1 |
| Asian | 8 |
| Hawaiian/Pacific Islands | 0 |
| Hispanic | 13 |
| International | 3 |
| Two or more | 12 |
| White | 317 |
| Native American | 0 |
| Unknown | 1 |
| Male | 66 |
| Female | 289 |
| Total | 355 |

Programs of Study

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

- Multi-Age Special Education — Intervention Specialist-mild to moderate (K–12)
- Middle Childhood Education (grades 4–9)
Two concentrations chosen from:
 - Mathematics
 - Reading/Language Arts
 - Science
 - Social Studies
- Primary (P–5) Education (pre–K to grade 5)

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

- Adolescent and Young Adult (grades 7–12)
- Chemistry Education (School of Science and Mathematics)
- Language Arts Education – Integrated (School of Arts and Humanities/Department of English, Literature, and Modern Languages)
- Life Science Education (School of Science and Mathematics)
- Mathematics Education – Integrated (School of Science and Mathematics)
- Physical Science Education (School of Science and Mathematics)
- Physics Education (School of Science and Mathematics)
- Science Comprehensive Education – Integrated (School of Science and Mathematics)
- Social Studies Education – Integrated (School of Arts and Humanities/Department of History and Government)
- Multi-Age Licensure (pre–K to grade 12)
 - Music Education (School of Arts and Humanities/Department of Music and Worship)
 - Spanish Education (School of Arts and Humanities/Department of English, Literature, and Modern Languages)

Personal Requirements

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

Cocurricular Opportunities

Numerous opportunities exist for tutoring in public schools, mentoring K–12 students, and becoming involved in local church ministries to children and adolescents. In addition, students may choose to join the Student Education Association (SEA).

Teacher Education Program Admission Requirements

Students admitted to Cedarville University must also make application for formal admission to the Teacher Education Program (TEP) usually in their late sophomore or early junior years depending on the major. To be admitted, students must meet the following requirements at least one semester before enrolling in the first methods of teaching course for their particular program. These requirements apply to all students seeking a degree and/or license in either middle childhood education, primary (P–5) education, special education, multi-age education, or adolescent/young adult education (i.e., secondary education). Students seeking a degree/licensure in a program offered by another department should review the requirements of that department as well.

1. Minimum cumulative GPA of 2.75 in all courses and 2.7 GPA in all TEP core prerequisite courses. All TEP prerequisite courses, professional content courses, and professional program requirements must be completed with a minimum grade of "C-".
2. Minimum GPA of 2.5 in all professional content courses.
3. Minimum passing scores on PRAXIS I competency exams, or by ACT/SAT exemption. Exemption from the exams is granted if:
 - a. ACT Math subscore equal/higher 21; or SAT Math subscore equal/higher 530.
 - b. ACT Reading subscore equal/higher 21; or SAT EBRW subscore equal/higher 550.
 - c. All students entering the TEP must have a writing exam score on file. These include the ACT writing exam (7 minimum) or SAT EBRW exam (550 minimum).
4. Satisfactory completion of all introductory field experiences.
5. Valid "No Record" background check for the state of Ohio and an additional FBI background check.
6. Satisfactory referral letter from academic advisor and one external reference.
7. Overall satisfactory dispositional assessments.

Teacher Education Program Retention and Completion Requirements

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

- Maintain a GPA of 2.75 or higher in all courses.
- 1. Obtain a "C-" or higher in all professional program requirements.
- 2. Satisfactorily complete field and clinical experiences.
- 3. Earn a passing score on all state-required licensure assessments.
- 4. Satisfactorily complete the capstone (student teaching) experience.
- 5. Attempt all required Ohio Assessments for Educators (OAE) prior to student teaching.

Test Pass Rates

For up-to-date testing pass rates and the Ohio educator preparation performance report see [cedarville.edu/
EducationLicensure](http://cedarville.edu/EducationLicensure).

Career Opportunities

Christian and public schools actively recruit Cedarville education graduates. Graduate schools also welcome Cedarville students. Careers pursued by 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
- Preschool director or teacher
- Special education (mild–moderate educational needs)
- Youth camps



Faculty

- Kevin M. Jones, Sr.**, *Dean*. Assistant Professor of Education. *Education:* BA, Kentucky State University, 2004; MA, University of Kentucky, 2008; MEd, University of Kentucky, 2015; EdD, Spaulding University, 2016. At Cedarville since 2020.
- Lori Ferguson**, *Assistant Dean*. Assistant Professor of Education. *Education:* BA, Cedarville University, 1998; MS, University of Dayton, 2002; EdD, University of Cincinnati, 2020. At Cedarville since 2011.
- Eddie Baumann**, Senior Professor of Education. *Education:* BS, University of Wisconsin, 1983; MS, University of Wisconsin, 1987; PhD, University of Wisconsin, 1995. At Cedarville since 1993.
- Megan Brown**, Assistant Professor of Education. *Education:* BS, Messiah College, 2011; MA, Hollins University, 2013; PhD, The Ohio State University, 2019. At Cedarville since 2018.
- David Leitch**, Associate Professor of Special Education. *Education:* BS, Baptist Bible College of Pennsylvania, 1984; MS, Central Michigan University, 1990; JD, Cleveland State University, 1993; MEd, Cleveland State University, 2008; PhD, Kent State University, 2018. At Cedarville since 2012.
- Brenda MacKay**, Associate Professor of Education. *Education:* BA, Oglethorpe University, 1965; MA, University of Georgia, 1972; EdD, Bob Jones University, 1992. At Cedarville since 2000.
- Lynn Roper**, Assistant Professor of Special Education. *Education:* BS, Asbury College, 1988; Certification in Special Education, University of Kentucky, 1990; MSW, University of Kentucky, 2000; PhD in special education, University of Kentucky, 2016. At Cedarville since 2010.
- Ruth Sylvester**, Professor of Education. *Education:* BS, Tennessee Temple University, 1981; MEd, University of South Florida, 1991; PhD, University of South Florida, 2007. At Cedarville since 2013.
- Tianhong Zhang**, Assistant Professor of Education. *Education:* BA, Xinjiang Normal University-China, 1993; MA, University of Akron, 2010; PhD, Kent State University, 2019. At Cedarville since 2019.
- Emeriti*
- Merlin Ager**, Professor Emeritus of Education. *Education:* BA, Cedarville University, 1960; MS, University of Wisconsin, 1962; PhD, The Ohio State University, 1967. At Cedarville 1964–75 and since 1978.
- Sally Castle**, Professor Emerita of Education. *Education:* BS, Syracuse University, 1964; MS, The University of Dayton, 1983; EdS, Wright State University, 1992; EdD, Nova Southeastern University, 1996. At Cedarville since 1994.
- Dwayne Frank**, Professor Emeritus of Education. *Education:* BA, Cedarville University, 1960; BS, Central State University, 1960; MAT, Albertson College, 1965; EdD, University of Idaho, 1973. At Cedarville since 1968. PT/Adjunct since 2003.
- Stephen Gruber**, Professor Emeritus of Education. *Education:* BA, Cedarville University, 1974; MEd, Wright State University, 1977; EdS, Wright State University, 1984; EdD, Miami University, 1990. At Cedarville since 2000.
- Timothy Heaton**, Professor of Education. *Education:* BA, Wittenberg University, 1973; MA, Grace Theological Seminary, 1986; PhD, University of Dayton, 1999. At Cedarville since 1987.
- Beverly Monroe**: Associate Professor Emerita of Education. *Education:* BA, Shelton College, 1957; MA, Wright State University, 1971; PhD, Miami University, 1985. At Cedarville since 1977.
- Thomas Sweigard**, Associate Professor Emeritus of Education. *Education:* BS, Bowling Green State University, 1973; MA, The Ohio State University, 1982; PhD, The Ohio State University, 1992. At Cedarville since 2003.

Middle Childhood Education

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

| | |
|---|----------------|
| General Education Requirements | 48–51.5 |
| Biblical and Theological Studies | 15 |
| BTGE-1725 The Bible and the Gospel | 3 |
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| Communication | 6 |
| 1COM-1100 Fundamentals of Speech..... | 3 |
| 1ENG-1400 English Composition..... | 3 |
| Humanities | 6 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| 1LIT-2300 Introduction to Literature | 3 |
| (or LIT-2340 Western Literature) | 3) |
| Physical Education..... | 2 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Science and Mathematics..... | 10–13.5 |
| ³ GBIO-1000 Principles of Biology | 3.5 |
| ² EDUC-1800 Principles of Mathematics I | 0–3 |
| ² EDUC-2800 Principles of Mathematics II | 3 |
| (or any college-level quantitative course approved by Cedarville University) | 3 |
| ³ Physical Science elective selected from: | 3.5–4.0 |
| ESCI-2310 Introduction to Oceanography | 4 |
| ESCI-2410 General Meteorology | 4 |
| ESCI-2510 Introduction to Astronomy | 4 |
| GSCI-1010 Principles of Earth Science..... | 3.5 |
| GSCI-1020 Principles of Physical Science..... | 3.5 |
| Social Science | 9 |
| ⁴ GSS-1100 Politics and American Culture | 3 |
| ⁴ HIST-1110 United States History to 1877 | 3 |
| (or HIST-1120 United States History Since 1877) | 3) |
| Global Studies elective selected from | 3 |
| ANTH-1800 Cultural Anthropology | 3 |
| GEO-3520 World Regional Geography: Eastern..... | 3 |
| HIST-3220 History and Politics of the Middle East | 3 |
| INTL-2100 Global Issues..... | 3 |
| INTL-3650 International Relations | 3 |
| Foreign Language | 0–8 |
| See the global awareness section of the general education requirements. | |
| ¹ For Language Arts concentration, these courses are also considered professional content courses. | |
| ² For Mathematics concentration, these courses are also considered professional content courses. Students pursuing the Mathematics concentration must take EDUC-2800 Principles of Mathematics II. | |
| ³ For Science concentration, these courses are also considered professional content courses. | |
| ⁴ For Social Studies concentration, these courses are also considered professional content courses. | |
| Teacher Education Program Pre-requisites | 14 |
| EDSP-2100 Exceptionalities and Behavior | 2 |
| EDUC-1000 The Education Profession..... | 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 |

| | |
|---|----------------|
| Professional Program Requirements..... | 39 |
| Middle School Methods I | 13 |
| EDMC-3500 Principles of Teaching Middle School..... | 4 |
| EDMC-3600 Phonics/Structure Language..... | 3 |
| EDMC-3700 Teaching Reading/Middle Childhood Literature | 4 |
| EDMC-3950 Middle School Field Experience I: Teaching Reading | 2 |
| Middle School Methods II | 14 |
| EDMC-XXXX Content Methods (Concentration 1)..... | 3 |
| EDMC-XXXX Content Methods (Concentration 2)..... | 3 |
| EDMC-4000 Reading and Writing in the Disciplines: Middle Childhood..... | 3 |
| EDMC-4440 Middle Childhood Field Experience II..... | 2 |
| EDSP-4250 Communication, Collaboration, and Inclusion | 2 |
| EDUC-3200 Faith and Learning Alignment (4-12)..... | 1 |
| Capstone | 12 |
| EDMC-4900 Student Teaching and Seminar | 12 |
| Professional Content Courses | 32–34.5 |
| *EDUC-3100 Philosophical Foundations of Education | 3 |
| Satisfies humanities elective for General Education | |
| Concentration Areas (must choose two) Concentration courses must be completed prior to student teaching. | |
| Mathematics..... | 16 |
| EDMC-4125 Topics in Middle School Mathematics..... | 3 |
| GMTH-1020 College Algebra | 3 |
| GMTH-1030 Precalculus | 4 |
| GMTH-3010 Proof and Mathematical Modeling | 3 |
| PYCH-2610 Statistics | 3 |
| Language Arts | 14 |
| ENG-2070 Fundamentals of English Grammar | 3 |
| ENG-2230 Advanced Composition | 3 |
| ENG-3180 Visual Rhetoric | 2 |
| LIT-2390 Survey of American Literature to 1900 | 3 |
| LIT-3100 Contemporary Young Adult Literature | 3 |
| Science | 15.5 |
| CHEM-1000 Principles of Chemistry..... | 4 |
| GSCI-1020 Principles of Physical Science..... | 3.5 |
| GSCI-3010 Concepts in Middle School Science | 4 |
| GSCI-3060 Environmental Science for Middle School Educators | 4 |
| Social Studies | 15 |
| ECON-2110 Essentials of Economics | 3 |
| GEO-3510 World Regional Geography: Western | 3 |
| HIST-1120 United States History Since 1877 | 3 |
| HIST-2010 History of Civilization to 1500 | 3 |
| HIST-2020 History of Civilization Since 1500 | 3 |
| Middle Childhood Education Major Curriculum Summary | |
| Proficiency Requirements | 0–4 |
| General Education Requirements..... | 48–51.5 |
| Teacher Education Program Pre-requisites..... | 14 |
| Middle Childhood Education Professional Program Requirements | 32–34.5 |
| Professional Content Requirements | 44.5–50 |
| Total (minimum, not including proficiency) | 133* |

*Total credits vary depending on concentrations chosen.

A complete description of the general education requirements is found on page 26.

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

First Year:

| | |
|--|-------------|
| BTGE-1725 The Bible and the Gospel | 3 |
| BTGE-2730 Old Testament Literature..... | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| EDUC-1000 The Education Profession..... | 2 |
| EDUC-1800 Principles of Mathematics I | 0–3 |
| ENG-1400 Composition..... | 3 |
| GBIO-1000 Principles of Biology | 3.5 |
| GSS-1100 Politics and American Culture..... | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Concentration Electives | 8 |
| Total | 36.5 |

Second Year:

| | |
|--|----------------|
| 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 | 38.5–39 |

Third Year:

| | |
|--|-----------|
| BTGE-3765 Theology II | 3 |
| EDMC-3500 Principles of Teaching Middle School | 4 |
| EDMC-3600 Phonics and Structure of Language | 3 |
| EDMC-3700 Teaching Reading Middle Childhood Literature | 4 |
| EDMC-3950 Middle School Field Experience I: Teaching Reading | 2 |
| HIST-XXXX US History Elective | 3 |
| Global Studies Elective..... | 3 |
| Concentration Electives | 15 |
| Total | 37 |

Fourth Year:

| | |
|--|----------------|
| EDMC-4000 Reading and Writing in the Disciplines: Middle Childhood | 3 |
| EDMC-4440 Middle School Field Experience II | 2 |
| EDMC-4900 Student Teaching and Seminar: MC | 12 |
| EDSP-4250 Communication, Collaboration, and Inclusion..... | 2 |
| EDUC-3200 Faith and Learning Alignment (4-12) | 1 |
| Concentration Electives | 4–6.5 |
| Total | 24–26.5 |



Primary (P–5) Education

The primary (P–5) education major prepares students to teach preschool to grade five in public and Christian schools.

| | |
|--|------------|
| General Education Requirements | 20 |
| Biblical and Theological Studies | 15 |
| BTGE-1725 The Bible and the Gospel..... | 3 |
| BTGE-2730 Old Testament Literature | 3 |
| BTGE-2740 New Testament Literature..... | 3 |
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| Physical Education..... | 2 |
| PEF-1990 Physical Activity and Healthy Living | 2 |
| Global Studies elective selected from..... | 3 |
| ANTH-1800 Cultural Anthropology | 3 |
| GEO-3520 World Regional Geography: Eastern..... | 3 |
| HIST-3220 History and Politics of the Middle East..... | 3 |
| INTL-2100 Global Issues..... | 3 |
| INTL-3650 International Relations | 3 |
| Satisfies global awareness course general education requirements (see global awareness section of general education requirements) | |
| Foreign Language | 0–8 |
| See the global awareness section of the general education requirements. | |
| Teacher Education Program Pre-requisites | 14 |
| EDSP-2100 Exceptionalities and Behavior | 2 |
| EDUC-1000 The Education Profession..... | 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 |
| Professional Program Requirements..... | 46 |
| Primary (P–5) Methods I..... | 17 |
| EDEC-3500 Primary (P–5) Education..... | 3 |
| EDEC-3600 Issues in Primary (P–5) Administration | 3 |
| EDEC-3800 Teaching Primary (P–5) Language Arts | 4 |
| EDEC-3900 Kindergarten Field Experience | 1 |
| EDEC-3950 Primary (P–5) Field Experience I | 3 |
| EDSP-3100 Diagnostics and Intervention in Reading..... | 3 |
| Primary (P–5) Methods II..... | 17 |
| EDEC-3200 Faith and Learning Alignment (P–5) | 1 |
| EDEC-4000 Reading in the Content Areas: Primary (P–5) | 2 |
| EDEC-4100 Teaching Primary (P–5) Mathematics | 3 |
| EDEC-4200 Teaching Primary (P–5) Science..... | 3 |
| EDEC-4300 Teaching Primary (P–5) Social Studies..... | 3 |
| EDEC-4450 Primary (P–5) Field Experience II | 3 |
| EDSP-4250 Communication, Collaboration, and Inclusion | 2 |
| Capstone | 12 |
| EDEC-4900 Student Teaching and Seminar: (P–5) | 12 |

Professional Content Courses

| | |
|---|------------------|
| Professional Content Courses | 48.5–51.5 |
| ¹ COM-1100 Fundamentals of Speech..... | 3 |
| ² ENG-1400 English Composition..... | 3 |
| EDEC-2100 Fine Arts in the Classroom | 2 |
| EDEC-2300 Phonics and the Reading Process..... | 4 |
| EDSP-2500 Survey of Intellectual and Developmental Disabilities | 1 |
| EDUC-2400 Children's Literature..... | 3 |
| ³ EDUC-3100 Philosophical Foundations of Education | 3 |
| ESED-2900 Health and Movement Education..... | 2 |
| PYCH-2725 Child Development..... | 2 |
| ⁴ LIT-2300 Introduction to Literature | 3 |
| (or LIT-2340 Western Literature.....) | 3) |
| ⁵ GBIO-1000 Principles of Biology | 3.5 |
| EDUC-1800 Principles of Mathematics I | 0–3 |
| ⁶ EDUC-2800 Principles of Mathematics II | 3 |
| ⁷ GSCI-1010 Principles of Earth Science | 3.5 |
| GSCI-2010 Physical Science for Teachers..... | 3.5 |
| ⁸ GSS-1100 Politics and American Culture | 3 |
| ⁹ HIST-1110 United States History to 1877 | 3 |
| (or HIST-1120 United States History Since 1877 | 3) |
| ¹⁰ HUM-1400 Introduction to Humanities | 3 |
| ¹ Satisfies specified general education requirement | |
| ² Satisfies specified general education requirement | |
| ³ Satisfies humanities general education requirement | |
| ⁴ Satisfies literature general education requirement | |
| ⁵ Satisfies biology general education requirement | |
| ⁶ Satisfies quantitative general education requirement | |
| ⁷ Satisfies physical science general education requirement | |
| ⁸ Satisfies social science and history general education requirement | |

Primary (P–5) Education Major Curriculum Summary

| | |
|---|--------------|
| Proficiency Requirements | 0–4 |
| General Education Requirements | 20 |
| Teacher Education Program Pre-requisites | 14 |
| Professional Program Requirements | 46 |
| Primary (P–5) Education Professional | |
| Content Requirements | 48.5–51.5 |
| Total (minimum, not including proficiency) | 128.5 |



A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Primary (P–5) Education

First Year:

| | |
|--|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| BTGE-2730 Old Testament Literature..... | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| EDUC-1000 The Education Profession..... | 2 |
| EDUC-1800 Principles of Mathematics I | 0–3 |
| EDUC-2100 e-Learning for Educators..... | 3 |
| ENG-1400 Composition..... | 3 |
| GBIO-1000 Principles of Biology | 3.5 |
| GSCI-1010 Principles of Earth Science | 3.5 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| PYCH-2725 Child Development..... | 2 |
| History Elective..... | 3 |
| Total | 34 |



Second Year:

| | |
|---|-------------|
| BTGE-2740 New Testament Literature | 3 |
| BTGE-3755 Theology I..... | 3 |
| EDEC-2100 Fine Arts in the Classroom | 2 |
| EDEC-2300 Phonics and the Reading Process | 4 |
| EDSP-2100 Exceptionalities and Behavior..... | 2 |
| EDSP-2500 Survey of Intellectual and Developmental Disabilities ... | 1 |
| EDUC-2050 Teaching Diverse Learners..... | 2 |
| EDUC-2300 Assessment and Differentiation..... | 2 |
| EDUC-2800 Principles of Mathematics II | 3 |
| EDUC-3100 Philosophical Foundations of Education | 3 |
| GSCI-2010 Physical Science for Teachers..... | 3.5 |
| Global Studies Elective..... | 3 |
| LIT-2XXX Literature Elective | 3 |
| Total | 34.5 |



Third Year:

| | |
|---|-----------|
| BTGE-3765 Theology II | 3 |
| EDEC-3500 Primary (P–5) Education | 3 |
| EDEC-3600 Issues in Primary (P–5) Administration | 3 |
| EDEC-3800 Teaching Primary (P–5) Language Arts..... | 4 |
| EDEC-3900 Kindergarten Field Experience | 1 |
| EDEC-3950 Primary (P–5) Field Experience I | 3 |
| EDSP-3100 Diagnostics and Intervention in Reading | 3 |
| EDUC-2400 Children's Literature..... | 3 |
| EDUC-2500 Educational Psychology | 3 |
| ESED-2900 Health and Movement Education | 2 |
| GSS-1100 Politics and American Culture..... | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| Total | 34 |

Fourth Year:

| | |
|--|-----------|
| EDEC-3200 Faith and Learning Alignment (P–5)..... | 1 |
| EDEC-4000 Reading in the Content Areas: Primary (P–5)..... | 2 |
| EDEC-4100 Teaching Primary (P–5) Mathematics..... | 3 |
| EDEC-4200 Teaching Primary (P–5) Science | 3 |
| EDEC-4300 Teaching Primary (P–5) Social Studies | 3 |
| EDEC-4450 Primary (P–5) Field Experience II | 3 |
| EDEC-4900 Student Teaching and Seminar: (P–5)..... | 12 |
| EDSP-4250 Communication, Collaboration, and Inclusion..... | 2 |
| Total | 29 |

Special Education — Intervention Specialist

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

| | |
|---|------------|
| General Education Requirements | 20 |
| Biblical and Theological Studies | 15 |
| BTGE-1725 The Bible and the Gospel | 3 |
| BTGE-2730 Old Testament Literature | 3 |
| BTGE-2740 New Testament Literature | 3 |
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| Physical Education..... | 2 |
| PEF-1990 Physical Activity and Healthy Living | 2 |
| Global Studies elective selected from | 3 |
| ANTH-1800 Cultural Anthropology | 3 |
| GEO-3520 World Regional Geography: Eastern..... | 3 |
| HIST-3220 History and Politics of the Middle East..... | 3 |
| INTL-2100 Global Issues..... | 3 |
| INTL-3650 International Relations | 3 |
| Foreign Language | 0–8 |
| See the global awareness section of the general education requirements. | |
| Teacher Education Program Pre-requisites | 14 |
| EDSP-2100 Exceptionalities and Behavior | 2 |
| EDUC-1000 The Education Profession..... | 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 |
| Professional Program Requirements..... | 55 |
| Special Education Block | 16 |
| EDSP-2700 Teaching Children Mild to Moderate Disabilities | 2 |
| EDSP-3500 Special Education Law | 1 |
| EDSP-4100 Adaptive Curriculum and Instruction..... | 2 |
| EDSP-4125 Middle School Mathematics Topics for Special Educators..... | 1 |
| EDSP-4150 IEP Development and Student Transitions Throughout the K–12 Experience..... | 3 |
| EDSP-4300 Behavior and Instructional Management..... | 2 |
| EDSP-4400 Assessment in Special Education | 2 |
| EDSP-4550 Special Education Field Experience: AYA..... | 3 |
| Reading Methods..... | 10 |
| EDEC-3800 Teaching Primary (P–5) Language Arts | 4 |
| EDSP-3150 Intervention and Diagnosis in Reading for Special Educators..... | 3 |
| EDSP-3950 Special Education Field Experience: (P–5) | 3 |
| Primary (P–5) Methods II..... | 17 |
| EDEC-3200 Faith and Learning Alignment (P–5) | 1 |
| EDEC-4000 Reading in the Content Areas: Primary (P–5) | 2 |
| EDEC-4100 Teaching Primary (P–5) Mathematics | 3 |
| EDEC-4200 Teaching Primary (P–5) Science..... | 3 |
| EDEC-4300 Teaching Primary (P–5) Social Studies..... | 3 |
| EDSP-4250 Communication, Collaboration, and Inclusion..... | 2 |
| EDSP-4450 Special Education Field Experience: MC..... | 3 |
| Capstone | 12 |
| EDSP-4900 Student Teaching and Seminar: SPED | 12 |

| | |
|--|--------------|
| Professional Content Courses | 44–47 |
| ¹ COM-1100 Fundamentals of Speech..... | 3 |
| ² ENG-1400 English Composition..... | 3 |
| EDEC-2300 Phonics and the Reading Process..... | 4 |
| EDSP-2400 Language Development and Communication Disorders..... | 2 |
| EDSP-2500 Survey of Intellectual and Developmental Disabilities | 1 |
| EDUC-1800 Principles of Mathematics I | 0–3 |
| EDUC-2400 Children's Literature..... | 3 |
| ⁴ EDUC-2800 Principles of Mathematics II | 3 |
| ³ EDUC-3100 Philosophical Foundations of Education | 3 |
| ⁵ GBIO-1000 Principles of Biology | 3.5 |
| ⁶ GSCI-1020 Principles of Physical Science | 3.5 |
| (or GSCI-2010 Physical Science for Teachers.....) | 3.5 |
| ⁷ GSS-1100 Politics and American Culture | 3 |
| ⁸ HIST-1110 United States History to 1877 | 3 |
| (or HIST-1120 United States History Since 1877 | 3 |
| ⁹ HUM-1400 Introduction to the Humanities | 3 |
| ¹⁰ LIT-2300 Introduction to Literature | 3 |
| (or LIT-2340 Western Literature) | 3 |
| PYCH-2735 Child-Adolescent Development..... | 3 |
| ¹ Satisfies specified general education requirement | |
| ² Satisfies specified general education requirement | |
| ³ Satisfies humanities elective general education requirement | |
| ⁴ Satisfies quantitative general education requirement | |
| ⁵ Satisfies biological science general education requirement | |
| ⁶ Satisfies physical science general education requirement | |
| ⁷ Satisfies specified general education requirement | |
| ⁸ Satisfies history general education requirement | |
| ⁹ Satisfies specified general education requirement | |
| ¹⁰ Satisfies literature general education requirement | |

Special Education Major Curriculum Summary

| | |
|--|-------|
| Proficiency Requirements | 0–4 |
| General Education Requirements..... | 20 |
| Teacher Education Program Pre-Requisites | 14 |
| Special Education Professional Program Requirements..... | 55 |
| Professional Content Courses | 44–47 |

Total (minimum, not including proficiency) **133**

Note: Double major (Special Education/ Primary P-5 Education) optional courses listed on Special Education/Primary (P-5) Education Double Major Option on page 150)

A complete description of the general education requirements is found on page 26.

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

First Year:

| | |
|--|--------------|
| BTGE-1725 The Bible and the Gospel | 3 |
| BTGE-2730 Old Testament Literature..... | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| EDSP-2400 Language Development and Communication Disorders | 2 |
| EDUC-1000 The Education Profession..... | 2 |
| EDUC-1800 Principles of Mathematics I | 0-3 |
| EDUC-2100 e-Learning for Educators..... | 3 |
| EDUC-2400 Children's Literature..... | 3 |
| EDUC-2800 Principles of Mathematics II | 3 |
| ENG-1400 Composition..... | 3 |
| GBIO-1000 Principles of Biology | 3.5 |
| GSCI-1020 Principles of Physical Science | 3.5 |
| PYCH-2735 Child-Adolescent Development..... | 3 |
| Total | 35-38 |

Second Year:

| | |
|---|-----------|
| BTGE-2740 New Testament Literature | 3 |
| BTGE-3755 Theology I..... | 3 |
| EDEC-2300 Phonics and the Reading Process | 4 |
| EDSP-2100 Exceptionalities and Behavior | 2 |
| EDSP-2500 Survey of Intellectual and Developmental Disabilities ... | 1 |
| EDUC-2050 Teaching Diverse Learners..... | 2 |
| EDUC-2300 Assessment and Differentiation | 2 |
| EDUC-2500 Educational Psychology | 3 |
| EDUC-3100 Philosophical Foundations of Education | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| Global Studies Elective..... | 3 |
| History Elective..... | 3 |
| Total | 32 |

Third Year:

| | |
|--|-----------|
| BTGE-3765 Theology II | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Primary (P-5) Methods II (15 credits) | |
| EDEC-3200 Faith and Learning Alignment (P-5) | 1 |
| EDEC-4000 Reading in the Content Areas: Primary (P-5). | 2 |
| EDEC-4100 Teaching Primary (P-5) Mathematics..... | 3 |
| EDEC-4200 Teaching Primary (P-5) Science | 3 |
| EDEC-4300 Teaching Primary (P-5) Social Studies | 3 |
| EDSP-4250 Communication, Collaboration, and Inclusion..... | 2 |
| EDSP-4450 Special Education Field Experience: MC..... | 3 |
| Reading Methods I (10 credits) | |
| EDEC-3800 Teaching Primary (P-5) Language Arts..... | 4 |
| EDSP-3150 Intervention and Diagnosis in Reading for Special Educators..... | 3 |
| EDSP-3950 Special Education Field Experience: (P-5)..... | 3 |
| Total | 35 |

Fourth Year:

| | |
|---|-----------|
| Special Education Block (15 credits) | |
| EDSP-2700 Teaching Children Mild to Moderate Disabilities | 2 |
| EDSP-3500 Special Education Law | 1 |
| EDSP-4100 Adaptive Curriculum and Instruction | 2 |
| EDSP-4125 Middle School Mathematics Topics for Special Educators..... | 1 |
| EDSP-4150 IEP Development and Student Transitions Throughout the K-12 Experience..... | 2 |
| EDSP-4300 Behavior and Instructional Management | 2 |
| EDSP-4400 Assessment in Special Education..... | 2 |
| EDSP-4550 Special Education Field Experience: AYA | 3 |
| LIT-2XXX Literature Elective | 3 |
| EDSP-4900 Student Teaching and Seminar: SpE | 12 |
| Total | 30 |

Special Education/Primary (P-5) Education



Double Major Option

Special education majors who wish to qualify for primary (P-5) education program (pre-K to grade 5, all subjects) may do so by adding the following courses*. A combined special education/primary (P-5) education student teaching (EDUC-4950) must be substituted for EDSP-4900 Student Teaching and Seminar: Special Education. The primary (P-5) and special education student teaching experiences will be combined in a single semester-long experience.

| | |
|---|-------------|
| *Additional courses for double major..... | 14.5 |
| EDEC-2100 Fine Arts in the Classroom | 2 |
| EDEC-3500 Primary (P-5) Education | 3 |
| EDEC-3600 Issues in Primary (P-5) Administration..... | 3 |
| EDEC-3900 Kindergarten Field Experience | 1 |
| ESED-2900 Health and Movement Education..... | 2 |
| GSCI-1010 Principles of Earth Science | 3.5 |

Special Education/Primary(P-5) Education

Double Major Summary

| | |
|---|--------------|
| Proficiency Requirements | 0-4 |
| General Education Requirements..... | 54-62 |
| Special Education/Primary(P-5) Professional | |
| Program Requirements | 69.5 |
| Primary (P-5) Requirements for Double Major..... | 14.5 |
| Total (minimum, not including proficiency) | 147.5 |

A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for Double Majors in Special Education — Intervention Specialist and Primary (P-5) Education

Fall Year 1:

| | |
|---|------------------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| EDUC-1000 The Education Profession..... | 2 |
| EDUC-1800 Principles of Mathematics I | 0-3 |
| EDUC-2100 e-Learning for Educators..... | 3 |
| GBIO-1000 Principles of Biology | 3.5 |
| Total | 14.5-17.5 |

Spring Year 1:

| | |
|--|-------------|
| BTGE-2730 Old Testament Literature..... | 3 |
| EDUC-2800 Principles of Mathematics II | 3 |
| ESED-2900 Health and Movement Education for Young Child..... | 2 |
| ENG-1400 Composition..... | 3 |
| GSCI-1010 Principles of Earth Science | 3.5 |
| PYCH-2735 Child-Adolescent Development..... | 3 |
| Total | 17.5 |

Summer Year 1:

| | |
|--|----------|
| BTGE-2740 New Testament Literature | 3 |
| LIT-2XXX Literature Elective | 3 |
| Total | 6 |

Fall Year 2:

| | |
|--|-------------|
| EDEC-2300 Phonics and the Reading Process | 4 |
| EDSP-2100 Exceptionalities and Behavior | 2 |
| EDSP-2500 Survey of Intellectual and Developmental Disabilities .. | 1 |
| EDUC-2050 Teaching Diverse Learners..... | 2 |
| EDUC-2300 Assessment and Differentiation..... | 2 |
| EDUC-2400 Children's Literature..... | 3 |
| GSCI-1020 Principles of Physical Science | 3.5 |
| Total | 17.5 |

Spring Year 2:

| | |
|--|-----------|
| BTGE-3755 Theology I..... | 3 |
| EDEC-2100 Fine Arts in the Classroom | 2 |
| EDSP-2400 Language Development and 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 Healthy Living..... | 2 |
| Total | 18 |

Summer Year 2:

| | |
|--|----------|
| HUM-1400 Introduction to the Humanities..... | 3 |
| Global Studies Elective..... | 3 |
| Total | 6 |

Fall Year 3:

| | |
|--|-----------|
| Methods I (17 credit hours as follows): | |
| EDEC-3500 Primary (P-5) Education | 3 |
| EDEC-3600 Issues in Primary (P-5) Administration | 3 |
| EDEC-3800 Teaching Primary (P-5) Language Arts..... | 4 |
| EDEC-3900 Kindergarten Field Experience | 1 |
| EDSP-3150 Intervention and Diagnosis in Reading for Special Educators..... | 3 |
| EDSP-3950 Special Education Field Experience: (P-5)..... | 3 |
| Total | 17 |

Spring Year 3:

| | |
|--|---|
| History Elective..... | 3 |
| Methods II (15 credit hours as follows): | |

| | |
|---|-----------|
| EDEC-3200 Faith and Learning Alignment (P-5)..... | 1 |
| EDEC-4000 Reading in the Content Areas: Primary (P-5)..... | 2 |
| EDEC-4100 Teaching Primary (P-5) Mathematics..... | 3 |
| EDEC-4200 Teaching Primary (P-5) Science | 3 |
| EDEC-4300 Teaching Primary (P-5) Social Studies | 3 |
| EDSP-4250 Communication, Collaboration, and Inclusion | 2 |
| EDSP-4450 Special Education Field Experience: MC..... | 3 |
| Total | 20 |

Fall Year 4:

| | |
|-----------------------------|---|
| BTGE-3765 Theology II | 3 |
|-----------------------------|---|

Special Education Block (16 credit hours as follows):

| | |
|--|-----------|
| EDSP-2700 Teaching Children Mild to Moderate Disabilities | 2 |
| EDSP-3500 Special Education Law | 1 |
| EDSP-4100 Adaptive Curriculum and Instruction | 2 |
| EDSP-4125 Middle School Mathematics Topics for Special Educators..... | 1 |
| EDSP-4150 IEP Development and Student Transitions Throughout the K-12 Experience | 3 |
| EDSP-4300 Behavior and Instructional Management | 2 |
| EDSP-4400 Assessment in Special Education..... | 2 |
| EDSP-4550 Special Education Field Experience: AYA | 3 |
| Total | 19 |

Spring Year 4:

| | |
|--|-----------|
| EDUC-4950 Student Teaching and Seminar: SpE and (P-5)..... | 12 |
| Total | 12 |

Adolescent/Young Adult and Multi-Age Licensure Programs

The adolescent/young adult licensure programs prepare teachers to work with students in grades 7–12. The Ohio Department of Education has approved Cedarville University to issue adolescent/young adult licenses for teachers in the areas of integrated science (comprehensive), integrated life science, integrated physical science, integrated physics, integrated chemistry, integrated mathematics, integrated language arts, and integrated social studies. In addition to approving the previously listed programs, the Association of Christian Schools International has also approved Cedarville to offer ACSI certification in integrated Bible.

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

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

| | |
|---|-----------|
| Teacher Education Program Prerequisites..... | 14 |
| EDSP-2100 Exceptionalities and Behavior | 2 |
| EDUC-1000 The Education Profession..... | 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 |

*Not required for Multi-Age Music (MAMUS) majors

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

Methods of Teaching Block (all AYA majors and MA Spanish)

The following courses are to be taken together the fall semester prior to the student teaching experience.

| | |
|--|---|
| EDSE-4450 Adolescent/Young Adult Field Experience | 2 |
| EDSP-4250 Communication, Collaboration, and Inclusion..... | 2 |
| EDUC-3200 Faith and Learning Alignment (4–12) | 1 |
| EDUC-4000 Reading and Writing in the Disciplines: AYA and Multi-Age..... | 3 |

Additional Requirements:

| | |
|--|-----|
| EDSE-3000 Principles of Teaching AYA Learners | 4 |
| EDSE-4900 Student Teaching and Seminar: AYA | 12 |
| (or EDUC-4900 Student Teaching and Seminar: MA | 12) |
| EDUC-3100 Philosophical Foundations of Education | 3 |



Social Work

Mission Statement

The Social Work program in the School of Education and 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.

Program of Study

Cedarville's social work program leads to a Bachelor of Science (BS) degree in social work.

Social Work 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.

Social Work Requirements

To graduate with a bachelor's degree with a major in 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

1. Complete at least 41.5 hours of the general education requirements, including the necessary prerequisites. (Submit a summary of prerequisites.)
2. Complete SWK-1100 Total Immersion Experience with a "C-" or higher by the junior year.
3. Complete SWK-2330 Introduction to Social Work with a "C-" or higher by the junior year.
4. Complete SWK-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.
6. Complete and submit an Application for Admission to the social work program director, including an autobiographical statement detailing interest in social work.
7. 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.
9. Earn a cumulative GPA of 2.25 or higher. Submit a copy of current unofficial grade transcript from Student Planning.
10. Complete and document 40 hours of post high school social service volunteer experience (submit form).
11. Provide a background check for the State of Ohio and an additional FBI background check for those who live out of state.
12. Submit a social work program handbook sign-off sheet.
13. Submit a sign-off sheet attesting to having read the Code of Ethics and agreeing to conform to the Code of Ethics.

The final decision as to whether all requirements are adequately met for admission to and progression in the social work program will be made by the social work program director.

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 social work program 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

Cedarville University social work graduates have attended some of the nation's outstanding graduate and professional schools.

Careers pursued by graduates include:

- | | |
|---|---|
| <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • Missionary • Prison caseworker • Probation officer • Refugee resettlement worker • School social worker • Senior citizen center outreach worker • Sex trafficking program coordinator • Youth pastor |
|---|---|

Faculty

Michael E. Sherr, Program Director; Professor of Social Work.
Education: BSW., University of North Carolina Greensboro, 1997; MSW, University of South Carolina, 1998; PhD, University of South Carolina, 2003. At Cedarville since 2018.

Pamela Bailey, Assistant Professor of Social Work. *Education:* BS, Cedarville University, 2001; MSW, The Ohio State University, 2004. Licensed Independent Social Worker. At Cedarville since 2021.

Melissa Brown, Assistant Professor of Social Work. *Education:* BS, Cedarville University, 2008; MSW, The Ohio State University, 2014. Licensed Independent Social Worker Supervisor. At Cedarville since 2014.

George Huff, Senior Professor of Social Work; Field Director.
Education: BA, Ashland University, 1973; MSSA, Case Western Reserve University, 1977. Licensed Independent Social Worker Supervisor. At Cedarville since 2000.

Emeriti

Nelson Henning, Senior Professor Emeritus of Social Work.
Education: BSW., Southern Illinois University, 1976; MSW, University of Illinois, 1977; PhD, University of Pittsburgh, 1986. At Cedarville since 1994.



Social Work

The **social work major** prepares students for future ministries/careers in professional social work, professional church and church-related specializations, and informal assistance. The wide range of opportunities within the social work field provides graduates with numerous ways of investing in the lives of individuals, families, groups, and communities.

The social work program is accredited by the Council of Social Work Education. Social work graduates are eligible for licensure and for advanced standing in graduate schools of social work. Advanced standing allows students to earn a Master of Social Work degree in a little over one year.

Goals

The goal of the social work program is to prepare future professional social workers who are competent in the areas of:

1. Serving diverse people, groups, and communities by treating all with dignity and respect, valuing all relationships.
2. Addressing conditions that limit human rights, promoting social, economic and environmental justice worldwide, and working toward the elimination of poverty with the underpinning component of enhancing the quality of life for all people.
3. Practicing with competence and integrity using scientific inquiry and evidence-based interventions.
4. Applying the person and the environment construct to practice, understanding the impact poverty can have on social functioning.
5. Ethically integrating faith and social work practice.



International Field Experience

The social work program offers an international field experience in India, Ecuador, or Uganda to junior or senior social work students. Students work in a variety of social service agencies in the host country, supervised by an on-site master's level social worker and under the direction of the Department of Social Work's international field coordinator. Courses at a local university expand the student's understanding of the host country, and planned activities further enhance the cultural experience. Students receive academic credits for the coursework and for the internship, allowing them to complete their Cedarville degree within the normal four years. The international field coordinator supports the student throughout the entire process — pre-departure, during the international experience, and after the student's return to campus.

International field experience is available over the summer break or during the school year. Students interested in international field experience should meet with their advisor as early as possible to discuss the feasibility and scheduling needs. Students should then meet with the international field coordinator to initiate the application process.

Application Requirements

Early application is advised. Students should check with the international field coordinator for the application deadline for their choice of country and desired semester. Students must have gained admission into the social work program or be on track for successful completion of all program admission requirements prior to the international experience. Applicants are required to have a GPA of at least 2.75 within their core social work courses.

Three reference letters from the following individuals are required for acceptance for an international field experience:

- Advisor or faculty member
- Pastor
- Friend

Pre-Departure Requirements

The student will be required to meet with the international field coordinator for a minimum of four times during the semester prior to departure. Meetings will focus on the country's culture, people, climate, and other pertinent topics. The student is to complete assigned readings and come prepared for discussion. Questions of concern or interest will also be discussed during the weekly sessions.

The student must also fulfill all orientation obligations within the CU Study Abroad department.

Reentry Requirements

It is recommended the student keep their return semester as light as possible. The student and the international field coordinator will meet for re-entry at a minimum five times during the return semester. The student will be required to read and discuss *Re-Entry* by Peter Jordan.

The student must also fulfill all reentry obligations within the CU Study Abroad department.

Social Work Advisory Council

The Social Work Advisory Council consists of social work professionals, agency administrators, clergy, and educators representing public, private, and church-related service agencies. Through semi-annual meetings, these experts advise the program and evaluate its plans for training skilled social work professionals with a commitment to core values and a biblical world and life view.

Pamela Bailey, Cedarville University, Cedarville, Ohio

Melissa D. Brown, Cedarville University, Cedarville, Ohio

Chris Bernstein, Trinity Church, Dayton, Ohio

James Cooper, Author and Youth Worker, Springfield, Ohio

Wendy Doolittle, McKinley Hall, Inc., Springfield, Ohio

Jane Eckels, United Senior Services, Springfield, Ohio

Tori Ederer, Family Violence Prevention Center, Xenia, Ohio

Susan Fiegl, Beavercreek City Schools, Beavercreek, Ohio

Sharon Guenther, Premier Health Network, Dayton, Ohio

Debbie Holt, Pathways of Hope Grief Counseling Center, Dayton, Ohio

George Huff, Cedarville University, Cedarville, Ohio

Suk-hee Kim, Northern Kentucky University, Highland Heights, Kentucky

Esther Lanham, Advisory Council Secretary, Cedarville University, Cedarville, Ohio

David King, Indiana Wesleyan University, Marion, Indiana

Lynn Roper, Cedarville University, Cedarville, Ohio

Michael E. Sherr, Advisory Council Chair, Cedarville University

Steven Throop, Legacy Village, Xenia, Ohio

Barry Wideman, Dayton VA Medical Center, Dayton, Ohio



Social Work

Course requirements for the BS degree with a major in social work involve 83.5 semester hours including:

| | |
|---|----------|
| ¹ BTPA-2200 Introduction to Philosophy | 3 |
| ¹ GBIO-1000 Principles of Biology | 3.5 |
| ¹ HIST-3750 Social Movements | 3 |
| PYCH-1600 General Psychology | 3 |
| SOC-1300 Introduction to Sociology | 3 |
| ² SWK-1100 Total Immersion Experience | 1 |
| ^{1,2} SWK-2330 Introduction to Social Work..... | 3 |
| SWK-2350 Field Survey | 2 |
| SWK-2900 Ethics in the Helping Professions..... | 3 |
| SWK-3010 Human Behavior and Social Environment..... | 3 |
| ³ SWK-3020 Generalist Social Work Practice with Groups | 3 |
| ³ SWK-3110 Social Welfare Programs and Policy | 3 |
| ³ SWK-3210 Social Work Practice with Individuals and Families..... | 4 |
| ³ SWK-3430 Junior Seminar I | 1 |
| ³ SWK-3440 Junior Field Experience I..... | 3 |
| ³ SWK-3450 Junior Seminar II..... | 1 |
| ³ SWK-3460 Junior Field Experience II..... | 3 |
| ³ SWK-4210 Social Work Practice with Diverse Populations | 3 |
| ³ SWK-4220 Social Work Practice with Communities and Organizations | 4 |
| ³ *SWK-4510 Senior Seminar I | 2 |
| ³ *SWK-4520 Senior Seminar II | 2 |
| ³ *SWK-4560 Senior Field Experience I..... | 6 |
| ³ *SWK-4570 Senior Field Experience II..... | 6 |
| ^{1,3} SWK-4610 Statistics for Social Workers | 3 |
| ^{1,3,4} SWK-4620 Social Work Research Methods..... | 3 |
| Electives selected from | 9 |
| ¹ ANTH-1800 Cultural Anthropology..... | 3 |
| SWK-2500 Social Work with Aging Populations..... | 3 |
| SWK-2820 Social Work in Mental Health Settings..... | 3 |
| ² SWK-2840 Concepts of Chemical Dependency | 3 |

¹Satisfies general education requirement.

²Available to non-majors.

³Available only to social work majors who have been accepted into the program.

⁴Satisfies the additional six semester hours required for BS major within the general education requirements.

⁵Additional course options are available to satisfy the elective requirement with approval from the Program Director.

*Capstone Course

Social Work Major Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0-4 |
| General Education Requirements..... | 38.5 |
| Social Work Major Requirements | 83.5 |
| Electives | 6 |
| Total (minimum, not including proficiency) | 128 |

Because of the specific, sequential course requirements involved, completion of the program in four years requires careful planning. Failure to take courses in their sequential order may result in a fifth year for completion. Transfer students, particularly those transferring in as juniors, will most likely require three years of study at Cedarville to complete program requirements.

A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Social Work

Year 1:

| | |
|--|-------------|
| BTGE-1725 The Bible and the Gospel | 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 | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| SOC-1300 Introduction to Sociology | 3 |
| SWK-1100 Total Immersion Experience | 1 |
| SWK-2330 Introduction to Social Work | 3 |
| SWK-2350 Field Survey | 2 |
| Total | 32.5 |

Year 2:

| | |
|--|-------------|
| BTGE-2740 New Testament Literature | 3 |
| BTPA-2200 Introduction to Philosophy | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| HIST-3750 Social Movements | 3 |
| SWK-2900 Ethics in the Helping Professions | 3 |
| Physical Science Elective | 3.5 |
| Social Work program electives | 9 |
| Electives | 6 |
| Total | 33.5 |

Year 3:

| | |
|---|-----------|
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| LIT-2XXX Literature Elective | 3 |
| SWK-3010 Human Behavior and Social Environment | 3 |
| SWK-3020 Generalist Social Work Practice with Groups | 3 |
| SWK-3110 Social Welfare Programs and Policy | 3 |
| SWK-3210 Social Work Practice with Individuals and Families | 4 |
| SWK-3430, 3450 Junior Seminar I and II | 2 |
| SWK-3440, 3460 Junior Field Experience I and II | 6 |
| Science or Math Elective (Bioethics recommended) | 3 |
| Total | 33 |

Year 4:

| | |
|--|-----------|
| SWK-4210 Social Work Practice with Diverse Populations..... | 3 |
| SWK-4220 Social Work Practice with Communities and Organizations | 4 |
| SWK-4510, 4520 Senior Seminar I and II..... | 4 |
| SWK-4560, 4570 Senior Field Experience I and II | 12 |
| SWK-4610 Statistics for Social Workers | 3 |
| SWK-4620 Social Work Research Methods | 3 |
| Total | 29 |

Suggested Three-Year Curriculum for a Major in Social Work

Fall Year 1:

| | |
|--|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| ENG-1400 Composition..... | 3 |
| HIST-3750 Social Movements | 3 |
| PYCH-1600 General Psychology | 3 |
| SWK-2330 Introduction to Social Work | 3 |
| SWK-2350 Field Survey | 2 |
| Total | 17 |

Spring Year 1:

| | |
|--|-------------|
| BTGE-2730 Old Testament Literature..... | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| GBIO-1000 Principles of Biology | 3.5 |
| SOC-1300 Introduction to Sociology | 3 |
| SWK-2820 Social Work in Mental Health Settings | 3 |
| SWK-2900 Ethics in the Helping Professions | 3 |
| Total | 18.5 |

Summer Year 1:

| | |
|--|-------------|
| BTGE-2740 New Testament Literature | 3 |
| SWK-1100 Total Immersion Experience..... | 1 |
| LIT-2XXX Literature Elective | 3 |
| Physical Science Elective | 3.5 |
| Total | 10.5 |

Fall Year 2:

| | |
|--|-----------|
| GSS-1100 Politics and American Culture..... | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| SWK-2500 Social Work with Aging Populations | 3 |
| SWK-3010 Human Behavior and Social Environment | 3 |
| SWK-3110 Social Welfare Programs and Policy | 3 |
| Science or Math Elective | 3 |
| Total | 17 |

Spring Year 2:

| | |
|---|-----------|
| BTGE-3755 Theology I..... | 3 |
| BTPA-2200 Introduction to Philosophy | 3 |
| SWK-3020 Generalist Social Work Practice with Groups | 3 |
| SWK-3210 Social Work Practice with Individuals and Families | 4 |
| Electives | 6 |
| Total | 19 |

Summer Year 2:

| | |
|--|-----------|
| HUM-1400 Introduction to the Humanities..... | 3 |
| SWK-3430 Junior Seminar I | 1 |
| SWK-3440 Junior Field Experience I | 3 |
| SWK-3450 Junior Seminar II | 1 |
| SWK-3460 Junior Field Experience II | 3 |
| Total | 11 |

Fall Year 3:

| | |
|---|-----------|
| SWK-2840 Concepts of Chemical Dependency..... | 3 |
| SWK-4210 Social Work Practice with Diverse Populations..... | 3 |
| SWK-4510 Senior Seminar I..... | 2 |
| SWK-4560 Senior Field Experience I | 6 |
| SWK-4610 Statistics for Social Workers | 3 |
| Total | 17 |

Spring Year 3:

| | |
|--|-----------|
| BTGE-3765 Theology II | 3 |
| SWK-4220 Social Work Practice with Communities and Organizations | 4 |
| SWK-4520 Senior Seminar II | 2 |
| SWK-4570 Senior Field Experience II | 6 |
| SWK-4620 Social Work Research Methods | 3 |
| Total | 18 |





School of

ENGINEERING and COMPUTER SCIENCE

CEDARVILLE UNIVERSITY

Dr. Robert Chasnov, *Dean*

Civil Engineering 163

Majors

Civil Engineering — Bachelor of Science 163

Computer Engineering and Electrical Engineering 165

Majors

Computer Engineering 165

Electrical Engineering 166

Computer Science and Cyber Operations 167

Majors

Computer Science — Bachelor of Science 167

Cyber Operations — Bachelor of Science 168

Mechanical Engineering 169

Majors

Mechanical Engineering 169

Minors

Biomedical Engineering Minor 170

Computer Science Minor 170

Special Programs

Cooperative Education Program 170

Engineering Honors Program 170



Engineering and Computer Science

Mission Statement

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

Programs of Study

The School of Engineering and Computer Science offers the following programs of study:

Majors

- Civil Engineering (BSCE)
- Computer Science (BS)
- Computer Engineering (BSCpE)
- Cyber Operations (BS)
- Electrical Engineering (BSEE)
- Mechanical Engineering (BSME)

Minors

- Biomedical Engineering
- Computer Science

Special Programs

- Cooperative Education Program
- Engineering Honors Program

Accreditation

The BSCpE, BSEE, and BSME degree programs are accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>. The BS in computer science degree program and the concentration in cyber operations are accredited by the Computing Accreditation Commission of ABET, <http://www.abet.org>. Accreditation will be sought for the new civil engineering major (BSCE) at the earliest possible date once the first class of civil engineering students graduates.

Registration as a Professional Engineer

Senior engineering majors and graduate engineers are eligible to take the NCEES Fundamentals of Engineering (FE) Examination offered through NCEES (ncees.org). This exam is the first of two required to become a licensed Professional Engineer. The exam is now a discipline-specific exam which is administered year-round at NCEES-approved Pearson VUE test centers. A number of test centers are available for students in the Cincinnati, Columbus, and Dayton areas. All engineering students are strongly encouraged to complete the FE exam prior to their graduation. Cedarville seniors have passed the FE exam at a rate that is consistently higher than the national pass rates.

Personal Requirements

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

School Requirements

New Students

Students who excel in science and mathematics, enjoy solving real-life problems, and wish to serve others have the highest potential for careers in engineering, computer science, or cyber operations. Entering students are required to have an ACT composite score of at least 22 (or an SAT of at least 1100 or a CLT of 72) in order to declare a major in the school. We have also determined that incoming engineering students should achieve one of the following to be successful in engineering: an ACT Math subscore greater than 25, an SAT Math subscore greater than 621, or a CLT Quantitative subscore of greater than 26.

To assist the incoming students who desire a engineering major in the School of Engineering and Computer Science but do not meet our identified math scores to succeed, such students will be identified as "Engineering" or "Computing" students for the first year rather than by one of the specific majors. Students identified as "Engineering" or "Computing" students will receive closer academic monitoring during their first year and will be permitted to declare a specific engineering program major within the school after successfully completing Calculus I (MATH-1710) at Cedarville with a minimum grade of "C". Additionally, "Engineering" or "Computing" students not wishing to become civil engineering majors will also need to complete Digital Logic Design (EGCP-1010) at Cedarville with a minimum grade of "C". We strongly encourage all students interested in engineering to read "Engineering: Is it a four- or 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 a major housed within our school, high school students should take a college preparatory curriculum that includes:

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

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





Progression Requirements

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

Civil Engineering (CE)

To advance into the junior year, CE majors must earn a combined GPA of at least 2.0 in the following engineering courses: EGCE-1920, 2410, EGNN-1110, and EGME-2530, 2630.

In addition, CE majors must earn a combined GPA of at least 2.0 in the following cognate courses: CHEM-1050, MATH-1710, 1720, 2710, 2740, and PHYS-2110.

Computer Science (CS)

Computer Science majors must achieve a grade of at least C- in the following courses prior to taking any course that requires one of them as a prerequisite: CS-1210, 1220, 2210, 3410, 4810, CY-1000, and CY-3420.

Computer Engineering (CpE)

To advance into the junior year, CpE majors must earn a combined GPA of at least 2.0 in the following engineering and computer science courses: CS-1210, 1220, 2210, 3310, EGCP-1010, EGNN-1110, EGEE-2010, and EGME-1810 and 2570.

In addition, CpE majors must earn a combined GPA of at least 2.0 in the following cognate courses: MATH-1710, 1720, 2520, 2740 and PHYS-2110 and 2120.

Cyber Operations (CY)

Cyber Operations majors must achieve a grade of at least C- in the following courses prior to taking any course that requires one of them as a prerequisite: CS-1210, 1220, 2210, 3410, CY-1000, CY-3420, and CY-4810.

Electrical Engineering (EE)

To advance into the junior year, EE majors must earn a combined GPA of at least 2.0 in the following engineering courses: CS-1210, 1220, EGCP-1010, EGNN-1110, EGEE-2010, 2110, and EGME-1810, 2570.

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

Mechanical Engineering (ME)

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

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

Graduation Requirements

1. Earn a cumulative GPA of at least 2.0 in all major and cognate courses.
2. All computer, electrical, and mechanical engineering majors must take an assessment exam similar to the NCEES FE exam.

Technical Resources

Our modern laboratories include the following: fluids lab with an 18-inch cross-section wind tunnel, heat transfer, refrigeration, mechanics, materials testing, internal combustion engines, and dynamometers, CNC manufacturing, vibrations, dynamics

of machines, electrical machines, feedback controls, circuits, electronics, communications, digital logic design, microprocessors, surface-mount soldering, water resources, concrete fabrication and testing, environmental, and transportation. We also have extensive PC-based laboratories in which students use computer-based circuit design, 3-D solid modeling, FEA, CFD, CNC, and industry-standard IDE software.

Cocurricular Opportunities

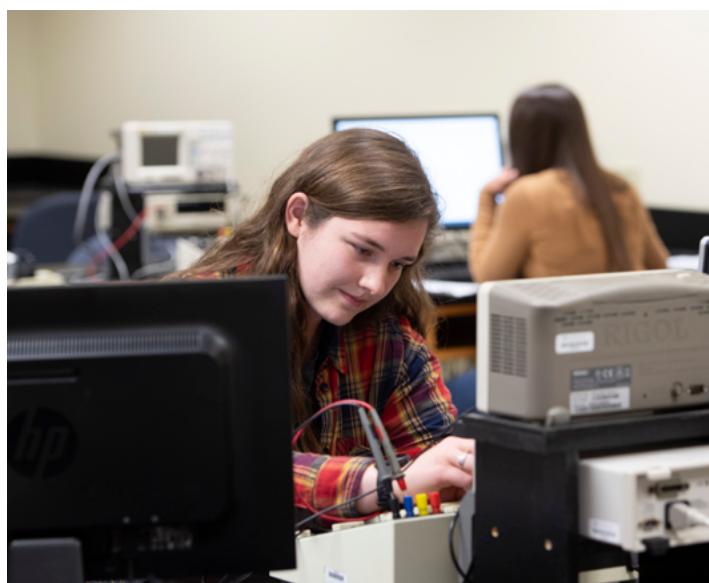
Engineering freshmen participate in an annual Cardboard Canoe Challenge. Other course-based competitions include statics and dynamics design competitions for sophomores, a full-scale truss design competition for civil engineering majors, an Advanced Digital Logic Design competition, and an annual programming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

Career Opportunities

Engineering and computer science both involve the application of scientific and mathematical principles, experience, judgment, and common sense to develop devices which help people. Engineers redesign products to work more efficiently, more quickly, and less expensively. They design buildings, bridges, and urban infrastructure, EKG and ultrasound machines that help doctors diagnose medical problems, electrical generation 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.





Program Educational Objectives

Within a few years of graduating from Cedarville University, the School of Engineering and Computer Science expect their graduates to attain:

1. Success in a profession related to their fields of study and/or in graduate-level education.
2. A dedication to continue to develop professionally and remain current in their fields.
3. A demonstrated commitment to make sound professional and ethical decisions based upon biblical truths as they serve Christ in their local community 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 engineering programs share a common philosophy of program outcomes which are consistent with the ABET engineering criteria. Similarly, our computer science program philosophy is consistent with the ABET computer science criteria.

Engineering and Computer Science Advisory Council

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



Faculty

Robert Chasnov, *Dean*; Senior Professor of Engineering; Head of Mechanical Engineering. *Education*: BS, Rensselaer Polytechnic Institute, 1978; MS, University of Illinois, 1980; PhD, University of Illinois, 1983; registered Professional Engineer. At Cedarville since 1991.

Stephen Ayers, *Assistant Dean*; Professor of Civil Engineering Head of Civil Engineering. *Education*: BEng (Mech) Honors I, University of Southern Queensland, 1994; PhD (Civil Eng), University of Southern Queensland, 2001; registered Professional Engineer. At Cedarville since 2018.

Mackenzie Booth, Instructor of Civil Engineering. *Education*: BS, LeTourneau University, 2017; MSE, Purdue University, 2020. At Cedarville since 2020.

Gerald Brown, Professor of Electrical Engineering. *Education*: BEngr, McMaster University, 1982; MEngr, McMaster University, 1984; PhD, McMaster University, 1989. At Cedarville since 2004.

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Timothy Dewhurst, Senior Professor of Mechanical Engineering. *Education*: BSME, Cornell University, 1980; MEngM, Cornell University, 1981; PhD, Cornell University, 1985; registered Professional Engineer. At Cedarville since 1996.

David Dittenber, Associate Professor Civil Engineering. *Education*: BS, LeTourneau University, 2007; MSE, West Virginia University, 2010; PhD, West Virginia University, 2013; registered Professional Engineer. At Cedarville since 2020.

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David Gallagher, Senior Professor of Computer Science; Head of Computer Science and Cyber Operations. *Education*: BSEE, United States Air Force Academy, 1978; MSEE, Air Force Institute of Technology, 1987; PhD, University of Illinois, 1995. At Cedarville since 2000.

Seth Hamman, Associate Professor of Cyber Operations and Computer Science; Director, Center for the Advancement of Cybersecurity. *Education*: BA, Duke University, 2002; MS Yale University, 2011; PhD, The Air Force Institute of Technology, 2016. At Cedarville since 2012.

Frederick Harmon, Professor of Electrical Engineering. *Education*: BSEE, Embry-Riddle Aeronautical University, 1992; MSEE, Air Force Institute of Technology, 1996; PhD, University of California-Davis, 2005; registered Professional Engineer. At Cedarville since 2014.

Hema Jayaseelan, Assistant Professor of Civil Engineering. *Education*: BSCE, Govt. College of Technology, Anna University, India, 2000; MSCD, Oklahoma State University, 2007; PhD, Oklahoma University, 2019; registered Professional Engineer. At Cedarville since 2022.



Jay Kinsinger, Associate Professor of Mechanical and Biomedical Engineering. *Education:* BS, Mechanical Engineering Technology and BS, Manufacturing Technology, University of Dayton, 1992; MS, Biomedical Engineering, Wright State University, 2000. At Cedarville since 1999.

Eric Knoerr, Instructor of Computer Science. *Education:* BS, Michigan Technological University, 1996. At Cedarville since 2022.

Clinton Kohl, Senior Professor of Computer Engineering. *Education:* BSEE, South Dakota State University, 1988; MSEE, University of North Dakota, 1990; PhD, Iowa State University, 1992. At Cedarville since 1994.

George Landon, Professor of Computer Science. *Education:* BS, University of Kentucky, 2002; PhD, University of Kentucky, 2008. At Cedarville since 2019.

Yuan (Edward) Meng, Assistant Professor of Electrical and Computer Engineering. *Education:* BS, Guizhou University, Guizhou, China, 2011; MS, Auburn University, 2015; PhD, Auburn University, 2018. At Cedarville since 2023.

Timothy Norman, Distinguished Professor of Mechanical and Biomedical Engineering. *Education:* BSAAE, Purdue University, 1982; MSAAE, Purdue University, 1986; PhD, Purdue University, 1989; registered Professional Engineer. At Cedarville since 2003.

Nicholas Parry, Assistant Professor of Cyber Operations; Assistant Director, Center for the Advancement of Cybersecurity. *Education:* BSCpE, Cedarville University, 2008; MSCpE, University of Southern California, 2013. At Cedarville since 2022.

Zhaohui (George) Qin, Associate Professor of Mechanical Engineering. *Education:* BS, Shanghai Jiaotong University, 1996; MS, Shanghai Jiaotong University, China, 1999; PhD, Iowa State University, 2007. At Cedarville since 2012.

Keith Shomper, Senior Professor of Computer Science. *Education:* BA, University of Northern Colorado, 1983; MS, Air Force Institute of Technology, 1984; PhD, The Ohio State University, 1993. At Cedarville since 2003.

Thomas Thompson, Senior Professor of Mechanical Engineering. *Education:* BSME, University of Nebraska-Lincoln, 1984; MSME, University of Nebraska-Lincoln, 1986; PhD, Iowa State University, 1995; registered Professional Engineer. At Cedarville since 1995.

Timothy Tuinstra, Professor of Electrical Engineering; Head of Electrical and Computer Engineering. *Education:* BSEE, Cedarville University, 1996; MSEE, University of Dayton, 1998; PhD, University of Dayton, 2008. At Cedarville since 2002.

Thomas Ward, Professor of Mechanical Engineering. *Education:* BS University of Cincinnati, 1989; MS University of Dayton, 1983; MSc Loughborough University, UK, 1995; PhD University of Dayton, 2003; registered Professional Engineer. At Cedarville since 2018.

Lawrence Zavodney, Senior Professor of Mechanical Engineering. *Education:* BSME, The University of Akron, 1974; MSME, The University of Akron, 1977; PhD, Virginia Polytechnic Institute and State University, 1987; registered Professional Engineer. At Cedarville since 1992.

Technical Support Staff

Ken Atkinson, Engineering Lab Technician, Education: LeTourneau College and Western Baptist College. At Cedarville since 2022.

John Harper, Engineering Lab Coordinator. *Education:* BSE, LeTourneau University, 2015; MSCE, West Virginia University, 2017. At Cedarville since 2020.

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

Emeriti

Harwood Hegna, Professor Emeritus of Mechanical Engineering. *Education:* BSAE, University of Minnesota, 1969; MSAE, University of Minnesota, 1971; MSME, University of Minnesota, 1973; PhD, Air Force Institute of Technology, 1981; registered Professional Engineer. At Cedarville since 1992.

Jeffrey Shortt, Professor Emeritus of Electrical Engineering. *Education:* BSEE, Virginia Polytechnic Institute and State University, 1974; MSEE, Virginia Polytechnic Institute and State University, 1979; PhD, Virginia Polytechnic Institute and State University, 1982. At Cedarville since 1996.





Civil Engineering — Bachelor of Science

Course requirements for the **Bachelor of Science in Civil Engineering (BSCE) degree** are comprised of the following and may be modified by the dean, assistant dean, or concentration coordinator.

Course requirements involve 74.5–75 semester hours including:

| | |
|---|----------------|
| Civil Engineering Core | 43 |
| EGCE-1920 Introduction to Civil Engineering | 2 |
| EGCE-2320 Principles of Surveying | 2 |
| EGCE-2410 Civil Engineering Materials | 4 |
| EGCE-3110 Geotechnical Engineering | 4 |
| EGCE-3210 Introduction to Hydraulic Engineering | 3 |
| EGCE-3510 Structural Analysis | 3 |
| EGCE-3610 Environmental Engineering | 4 |
| EGCE-3910 Civil Engineering Management | 2 |
| **EGCE-4810 Civil Engineering Senior Design I | 3 |
| **EGCE-4820 Civil Engineering Senior Design II | 3 |
| EGCE-4910 Civil Engineering Practice | 1 |
| EGGN-1110 The Engineering Profession | 1 |
| ¹ EGGN-3110 Professional Ethics | 3 |
| EGME-2530 Statics and Mechanics of Materials | 5 |
| EGME-2630 Dynamics | 3 |
| Civil Engineering Concentration Electives | 31.5–32 |
| Students must declare and complete ONE of the five Civil Engineering Concentrations. Multiple concentrations are not permitted. | |
| ²Level I Civil Engineering Electives | 3 |
| EGCE-3410 Construction Engineering | 3 |
| EGCE-3710 Transportation Engineering | 3 |
| ²Level II Civil Engineering Design Electives | 8 |
| EGCE-3220 Design of Water Distribution Systems | 4 |
| EGCE-3520 Design of Steel Structures | 4 |
| EGCE-3620 Air Pollution Management and Design | 4 |
| ²Level III Civil Engineering Design Electives | 7 |
| EGCE-4220 Hydrology | 3 |
| EGCE-4510 Reinforced Concrete Design | 4 |
| EGCE-4520 Design of Wood Structures | 3 |
| EGCE-4610 Design of Water Treatment Systems | 4 |
| EGCE-4620 Environmental Management and Policy Development | 3 |
| EGCE-4920 Infrastructure for Developing Contexts | 3 |
| Approved Technical Electives | 6 |
| EGEE-2050 Circuits and Instrumentation | 3 |
| EGME-2050 Computational Methods | 3 |
| ENVS-3100 Principles of Geographic Information Systems | 4 |
| Any 3000/4000-level EGCE, EGEE, EGNN, EGME, CHEM, or MATH | 2–3 |
| ²Level II Lab Science Elective | 4 |
| CHEM-1120 General Chemistry II | 4 |
| PHYS-2120 General Physics II | 4 |
| ^{2,5}Biological Science Elective | 3.5–4 |
| Required Cognates | 26.5 |
| ³ CHEM-1050 Chemistry for Engineers | 3.5 |
| ⁴ MATH-1710 Calculus I | 5 |
| MATH-1720 Calculus II | 5 |
| MATH-2710 Calculus III | 3 |
| MATH-2740 Differential Equations | 3 |
| MATH-3110 Probability and Statistics | 3 |
| PHYS-2110 General Physics I | 4 |

¹Satisfies humanities general education requirements.

²See concentration sequences for eligible elective combinations

³Satisfies physical science general education requirements

⁴Satisfies mathematics general education requirements

⁵Satisfies biological science general education requirements

* ECON-2110 Essentials of Economics required Social Science elective

**Capstone Course

| | |
|--|-----------|
| Environmental Engineering Concentration Requirements | 32 |
| Level I Civil Engineering Elective | 3 |
| Level II Civil Engineering Design Electives | 8 |
| EGCE-3220 Design of Water Distribution Systems | 4 |
| EGCE-3620 Air Pollution Management and Design | 4 |
| Level III Civil Engineering Design Electives | 7 |
| EGCE-4610 Design Water Treatment Systems | 4 |
| EGCE-4620 Environmental Management and Policy Development | 3 |
| Approved Technical Elective | 6 |
| ENVS-3100 Principles of Geographic Information Systems | 4 |
| Elective | 2 |
| Level II Lab Science Elective | 4 |
| CHEM-1120 General Chemistry II | 4 |
| Biological Science Elective | 4 |
| BIO-2210 Microbiology | 4 |
| General Civil Engineering Concentration Requirements | 32 |
| Level I Civil Engineering Elective | 3 |
| EGCE-3410 Construction Engineering | 3 |
| Level II Civil Engineering Design Electives | 8 |
| EGCE-3220 Design of Water Distribution Systems | 4 |
| EGCE-3520 Design of Steel Structures | 4 |
| Level III Civil Engineering Design Electives | 7 |
| EGCE-4610 Design of Water Treatment Systems | 4 |
| EGCE-4520 Design of Wood Structures | 3 |
| Approved Technical Electives | 6 |
| EGCE-3710 Transportation Engineering | 3 |
| Elective | 3 |
| Level II Lab Science Elective | 4 |
| CHEM-1120 General Chemistry II | 4 |
| PHYS-2120 General Physics II | 4 |
| Biological Science Elective | 4 |
| BIO-2210 Microbiology | 4 |
| International Infrastructure Engineering Concentration Requirements | 32 |
| Level I Civil Engineering Elective | 3 |
| EGCE-3410 Construction Engineering | 3 |
| Level II Civil Engineering Design Electives | 8 |
| EGCE-3220 Design of Water Distribution Systems | 4 |
| EGCE-3520 Design of Steel Structures | 4 |
| Level III Civil Engineering Design Electives | 7 |
| EGCE-4610 Design of Water Treatment Systems | 4 |
| EGCE-4920 Infrastructure for Developing Contexts | 3 |
| Approved Technical Electives | 6 |
| EGCE-4510 Reinforced Concrete Design | 4 |
| Elective | 2 |
| Level II Lab Science Elective | 4 |
| CHEM-1120 General Chemistry II | 4 |
| PHYS-2120 General Physics II | 4 |
| Biological Science Elective | 4 |
| BIO-2210 Microbiology | 4 |

| | |
|--|-------------|
| Structural Engineering Concentration Requirements | 31.5 |
| Level I Civil Engineering Elective..... | 3 |
| EGCE-3410 Construction Engineering | 3 |
| Level II Civil Engineering Design Electives..... | 8 |
| EGCE-3520 Design of Steel Structures | 4 |
| Design Elective | 4 |
| Level III Civil Engineering Design Electives..... | 7 |
| EGCE-4510 Reinforced Concrete Design | 4 |
| EGCE-4520 Design of Wood Structures | 3 |
| Approved Technical Electives | 6 |
| Level II Lab Science Elective..... | 4 |
| CHEM-1120 General Chemistry II..... | 4 |
| PHYS-2120 General Physics II | 4 |
| Biological Science Elective | 3.5 |
| GBIO-1000 Principles of Biology | 3.5 |
| (or BIO-2210 Microbiology | 4) |

| | |
|---|-----------|
| Water Resources Engineering Concentration Requirements | 32 |
| Level I Civil Engineering Elective..... | 3 |
| EGCE-3410 Construction Engineering | 3 |
| Level II Civil Engineering Design Electives..... | 8 |
| EGCE-3220 Design of Water Distribution Systems..... | 4 |
| Design Elective | 4 |
| Level III Civil Engineering Design Electives..... | 7 |
| EGCE-4220 Hydrology..... | 3 |
| EGCE-4610 Design of Water Treatment Systems | 4 |
| Approved Technical Electives | 6 |
| Level II Lab Science Elective..... | 4 |
| CHEM-1120 General Chemistry II..... | 4 |
| PHYS-2120 General Physics II | 4 |
| Biological Science Elective | 4 |
| BIO-2210 Microbiology..... | 4 |

| | |
|---|------------|
| Civil Engineering Major (BS) Curriculum Summary | |
| Proficiency Requirements | 0-4 |
| General Education Requirements..... | 38 |
| Civil Engineering Core Requirements..... | 43 |
| Civil Engineering Concentration Requirements | 31.5-32 |
| Required Cognates | 26.5 |
| Total (minimum, not including proficiency) | 139 |



A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Civil Engineering — BS

First Year:

| | |
|--|-------------|
| BTGE-1725 The Bible and the Gospel | 3 |
| CHEM-1050 Chemistry for Engineers | 3.5 |
| COM-1100 Fundamentals of Speech..... | 3 |
| EGCE-1920 Introduction to Civil Engineering..... | 2 |
| EGGN-1110 The Engineering Profession | 1 |
| ENG-1400 Composition..... | 3 |
| HUM-1400 Introduction to Humanities..... | 3 |
| MATH-1710 Calculus I | 5 |
| MATH-1720 Calculus II | 5 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| PHYS-2110 General Physics I | 4 |
| Total | 34.5 |

Second Year:

| | |
|--|-------------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| BIO-XXX Elective | 3.5 |
| *ECON-2110 Essentials of Economics | 3 |
| EGCE-2320 Principles of Surveying | 2 |
| EGCE-2410 Civil Engineering Materials..... | 4 |
| EGME-2530 Statics and Mechanics of Materials | 5 |
| EGME-2630 Dynamics | 3 |
| MATH-2710 Calculus III | 3 |
| MATH-2740 Differential Equations | 3 |
| Level II Lab Science Elective..... | 4 |
| Total | 36.5 |

Third Year:

| | |
|--|-----------|
| BTGE-3755 Theology I | 3 |
| EGCE-3110 Geotechnical Engineering..... | 4 |
| EGCE-3210 Introduction to Hydraulic Engineering..... | 3 |
| EGCE-3510 Structural Analysis | 3 |
| EGCE-3610 Environmental Engineering | 4 |
| EGCE-3910 Civil Engineering Management | 2 |
| EGCE-XXXX Level I Civil Engineering Elective | 3 |
| EGCE-XXXX Level II Civil Design Electives | 8 |
| GSS-1100 Politics and American Culture..... | 3 |
| MATH-3110 Probability and Statistics | 3 |
| Total | 36 |

Fourth Year:

| | |
|--|-----------|
| BTGE-3765 Theology II | 3 |
| EGCE-4810 Civil Engineering Senior Design I | 3 |
| EGCE-4820 Civil Engineering Senior Design II | 3 |
| EGCE-4910 Civil Engineering Practice | 1 |
| EGCE-XXXX Level III Civil Design Electives | 7 |
| EGGN-3110 Professional Ethics | 3 |
| History Elective | 3 |
| LIT-2XXX Literature Elective | 3 |
| Approved Technical Electives | 6 |
| Total | 32 |

* Satisfies required Social Science elective





A complete description of the general education requirements is found on page 26.

Computer Engineering

Course requirements for the **Bachelor of Science in Computer Engineering (BSCpE)** degree are comprised of the following and may be modified by the dean.

Course requirements involve 70 semester hours including:

| | |
|---|---|
| CS-1210 C++ Programming..... | 2 |
| CS-1220 Object Oriented Design with C++ | 3 |
| CS-2210 Data Structures Using Java | 3 |
| CS-3310 Operating Systems | 3 |
| CS-3410 Algorithms..... | 3 |
| EGCP-1010 Digital Logic Design | 3 |
| EGCP-2120 Microcontrollers | 3 |
| EGCP-3010 Advanced Digital Logic Design..... | 3 |
| EGCP-3210 Computer Architecture | 3 |
| EGCP-4210 Advanced Computer Architecture..... | 3 |
| EGCP-4310 Computer Networks..... | 3 |
| *EGCP-4810 Computer Engineering Senior Design I..... | 4 |
| *EGCP-4820 Computer Engineering Senior Design II..... | 4 |
| EGEE-2010 Circuits | 5 |
| EGEE-3110 Linear Systems | 3 |
| EGEE-3210 Electronics I | 3 |
| EGGN-1110 The Engineering Profession | 1 |
| ¹ EGGN-3110 Professional Ethics | 3 |
| EGGN-4010 Senior Seminar..... | 0 |
| EGME-1810 Engineering Graphics..... | 1 |
| EGME-2570 Statics and Dynamics | 3 |
| EGME-3170 Thermal Systems | 2 |

**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 | 5 |
| MATH-1720 Calculus II | 5 |
| MATH-2520 Discrete Math and Probability Principles for Computer Science | 3 |
| MATH-2740 Differential Equations | 3 |
| PHYS-2110 General Physics I | 4 |
| PHYS-2120 General Physics II | 4 |

¹Satisfies humanities general education requirements

²Satisfies physical science general education requirements

³Satisfies mathematics general education requirements

*Capstone Course

**Technical electives must be selected from CS, CY, EGCP or EGEE courses of 3000-level or higher that are not already prescribed in the program. At least one technical elective must be a 4000-level course.

Computer Engineering Major Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0-4 |
| General Education Requirements | 41.5 |
| Comprehensive Computer Engineering Requirements | 70 |
| Required Cognates | 27.5 |
| Total (minimum, not including proficiency) | 139 |



Suggested Four-Year Curriculum for a Major in Computer Engineering

First Year:

| | |
|---|-------------|
| BTGE-1725 The Bible and the Gospel | 3 |
| CHEM-1050 Chemistry for Engineers | 3.5 |
| COM-1100 Fundamentals of Speech..... | 3 |
| CS-1210 C++ Programming..... | 2 |
| CS-1220 Object Oriented Design with C++ | 3 |
| EGCP-1010 Digital Logic Design | 3 |
| EGGN-1110 The Engineering Profession | 1 |
| EGME-1810 Engineering Graphics..... | 1 |
| MATH-1710 Calculus I | 5 |
| MATH-1720 Calculus II | 5 |
| PHYS-2110 General Physics I | 4 |
| Total | 33.5 |

Second Year:

| | |
|---|-----------|
| BTGE-2730 Old Testament Literature..... | 3 |
| CS-2210 Data Structures Using Java | 3 |
| CS-3310 Operating Systems | 3 |
| EGCP-3210 Computer Architecture | 3 |
| EGEE-2010 Circuits | 5 |
| EGME-2570 Statics and Dynamics | 3 |
| ENG-1400 Composition..... | 3 |
| MATH-2520 Discrete Math/Probability Principles for Computer Science | 3 |
| MATH-2740 Differential Equations | 3 |
| PEF-1990 Physical Activity and Healthy Living | 2 |
| PHYS-2120 General Physics II | 4 |
| Total | 35 |

Third Year:

| | |
|---|-----------|
| BTGE-2740 New Testament Literature | 3 |
| BTGE-3755 Theology I | 3 |
| CS-3410 Algorithms..... | 3 |
| EGCP-2120 Microcontrollers | 3 |
| EGCP-3010 Advanced Digital Logic Design | 3 |
| EGEE-3110 Linear Systems | 3 |
| EGEE-3210 Electronics I | 3 |
| EGGN-3110 Professional Ethics | 3 |
| GSS-1100 Politics and American Culture | 3 |
| HUM-1400 Introduction to Humanities | 3 |
| LIT-2XXX Literature Elective | 3 |
| Technical Electives | 3 |
| Total | 36 |

Fourth Year:

| | |
|---|-------------|
| BTGE-3765 Theology II | 3 |
| EGCP-4210 Advanced Computer Architecture | 3 |
| EGCP-4310 Computer Networks..... | 3 |
| EGCP-4810 Computer Engineering Senior Design I | 4 |
| EGCP-4820 Computer Engineering Senior Design II | 4 |
| EGGN-4010 Senior Seminar | 0 |
| EGME-3170 Thermal Systems | 2 |
| Biology Elective | 3.5 |
| Technical Electives | 6 |
| History Elective | 3 |
| Social Science/Global Awareness Elective | 3 |
| Total | 34.5 |

Electrical Engineering

Course requirements for the **Bachelor of Science in Electrical Engineering (BSEE) degree** are comprised of the following and may be modified by the dean.

Course requirements involve 70 semester hours including:

| | |
|--|---|
| CS-1210 C++ Programming | 2 |
| CS-1220 Object Oriented Design Using C++ | 3 |
| EGCP-1010 Digital Logic Design | 3 |
| EGCP-2120 Microcontrollers | 3 |
| EGEE-2010 Circuits | 5 |
| EGEE-2110 Engineering Analysis | 3 |
| EGEE-3110 Linear Systems | 3 |
| EGEE-3210 Electronics I | 3 |
| EGEE-3220 Electronics II | 5 |
| EGEE-3310 Electromagnetics | 3 |
| EGEE-3330 Communications Theory | 4 |
| EGEE-4110 Digital Signal Processing | 3 |
| EGEE-4410 Feedback Control Systems | 4 |
| *EGEE-4810 Electrical Engineering Senior Design I | 4 |
| *EGEE-4820 Electrical Engineering Senior Design II | 3 |
| EGGN-1110 The Engineering Profession | 1 |
| ¹ EGGN-3110 Professional Ethics | 3 |
| EGGN-4010 Senior Seminar | 0 |
| EGME-1810 Engineering Graphics | 1 |
| EGME-2570 Statics and Dynamics | 3 |
| EGME-3170 Thermal Systems | 2 |

²Three Technical Electives (must include one 4000-level course).....9

These 3 courses can be taken as one of the following tracks:

Digital Electronics Track9

(choose three courses from the following:)

| | |
|--|---|
| EGCP-3010 Advanced Digital Logic Design | 3 |
| EGCP-3210 Computer Architecture | 3 |
| EGCP-4210 Advanced Computer Architecture | 3 |
| EGCP-4250 CMOS VLSI Design | 3 |

Imaging Track9

| | |
|--|---|
| EGEE-3370 Probability and Random Processes | 3 |
| EGEE-4120 Digital Image Processing | 3 |
| EGEE-4610 Medical Imaging | 3 |

Power and Energy.....9

| | |
|-------------------------------------|---|
| EGEE-3510 Power Electronics | 3 |
| EGEE-3530 Electrical Machines | 3 |
| EGEE-4510 Power Systems | 3 |

Required Cognates.....27.5

| | |
|--|-----|
| ³ CHEM-1050 Chemistry for Engineers | 3.5 |
| ⁴ MATH-1710 Calculus I | 5 |
| MATH-1720 Calculus II | 5 |
| MATH-2710 Calculus III | 3 |
| MATH-2740 Differential Equations | 3 |
| PHYS-2110 General Physics I | 4 |
| PHYS-2120 General Physics II | 4 |

¹Satisfies humanities general education requirements.

²Technical electives must have EGXX designation at 3000- or higher level.

³Satisfies physical science general education requirements.

⁴Satisfies mathematics general education requirements.

*Capstone Course

Electrical Engineering Major Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0-4 |
| General Education Requirements | 41.5 |
| Comprehensive Electrical 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 26.

Suggested Four-Year Curriculum for a Major in Electrical Engineering

First Year:

| | |
|--|-------------|
| BTGE-1725 The Bible and the Gospel | 3 |
| BTGE-2730 Old Testament Literature | 3 |
| CHEM-1050 Chemistry for Engineers | 3.5 |
| CS-1210 C++ Programming | 2 |
| EGCP-1010 Digital Logic Design | 3 |
| EGGN-1110 The Engineering Profession | 1 |
| EGME-1810 Engineering Graphics | 1 |
| ENG-1400 Composition | 3 |
| MATH-1710 Calculus I | 5 |
| MATH-1720 Calculus II | 5 |
| PHYS-2110 General Physics I | 4 |
| Total | 33.5 |

Second Year:

| | |
|---|-----------|
| BTGE-2740 New Testament Literature | 3 |
| COM-1100 Fundamentals of Speech | 3 |
| CS-1220 Object Oriented Design Using C++ | 3 |
| EGEE-2010 Circuits | 5 |
| EGEE-2110 Engineering Analysis | 3 |
| EGME-2570 Statics and Dynamics | 3 |
| GSS-1100 Politics and American Culture | 3 |
| MATH-2710 Calculus III | 3 |
| MATH-2740 Differential Equations | 3 |
| PEF-1990 Physical Activity and Healthy Living | 2 |
| PHYS-2120 General Physics II | 4 |
| Total | 35 |

Third Year:

| | |
|--|-----------|
| EGCP-2120 Microcontrollers | 3 |
| EGEE-3110 Linear Systems | 3 |
| EGEE-3210 Electronics I | 3 |
| EGEE-3220 Electronics II | 5 |
| EGEE-3310 Electromagnetics | 3 |
| EGEE-3330 Communications Theory | 4 |
| EGGN-3110 Professional Ethics | 3 |
| HUM-1400 Introduction to Humanities | 3 |
| Technical Elective/Track | 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 | 3 |
| EGEE-4410 Feedback Control Systems | 4 |
| EGEE-4810 Electrical Engineering Senior Design I | 4 |
| EGEE-4820 Electrical Engineering Senior Design II | 3 |
| EGGN-4010 Senior Seminar | 0 |
| EGME-3170 Thermal Systems | 2 |
| Biology Elective | 3.5 |
| Technical Electives/Track | 6 |
| History Elective | 3 |
| Total | 34.5 |

Computer Science — Bachelor of Science

Course requirements for the **BS degree in computer science** are comprised of the following and may be modified by the dean.

Course requirements involve 63 semester hours including:

Computer Science Core Requirements 54

| | |
|---|---|
| CS-1210 C++ Programming..... | 2 |
| CS-1220 Object-Oriented Design Using C++..... | 3 |
| CS-2210 Data Structures Using Java | 3 |
| CS-3210 Programming Language Survey | 3 |
| CS-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-4810,4820 Software Engineering I and II | 7 |
| CY-1000 Introduction to Cybersecurity..... | 3 |
| CY-3420 Cyber Defense | 3 |
| EGCP-1010 Digital Logic Design | 3 |
| EGCP-3210 Computer Architecture | 3 |
| EGCP-4310 Computer Networks..... | 3 |
| EGGN-3110 Professional Ethics | 3 |
| EGGN-4010 Senior Seminar..... | 0 |
| MATH-2520 Discrete Math and Probability Principles for Computer Science | 3 |

Technical electives chosen from the following 9

| | |
|---|---|
| Any 3000- or 4000-level computer science or cyber operations course | 3 |
| EGCP-3010 Advanced Digital Logic Design | 3 |
| EGCP-4210 Advanced Computer Architecture | 3 |
| MATH-3500 Number Theory | 3 |
| MATH-3560 Discrete Math: Combinatorics | 3 |
| MATH-3610 Linear Algebra | 3 |
| MATH-3760 Numerical Analysis..... | 3 |
| Other courses with pre-approval of department Chair | |

*Capstone Course

Required Cognates 18

| | |
|---|----|
| MATH-1710,1720 Calculus I and II | 10 |
| PHYS-2110 General Physics I | 4 |
| *BIO-1115 Biology I: Cell Biology | 4 |
| or **PHYS-2120 General Physics II | 4 |

*Fulfills general education for a biological science laboratory requirement

**Students desiring a double major of Computer Science and Cyber Operations must take PHYS-2120.

Optional Computer Science Tracks** 9–12

Replace 9 hours of technical electives with 9–12 hours from one of the following computer science track.

Cyber Operations Track

| | |
|---|---|
| CY-3320 Linux Systems Programming | 3 |
| CY-4310 Cyber Operations..... | 3 |
| CY-4330 Software Security | 3 |

Graphic Design Track

| | |
|---|---|
| Any 3000- or 4000-level computer science course | 3 |
| VCD-1050 Applied Design: Tech Tools I | 3 |
| VCD-2200 Typography | 3 |
| VCD-2400 Graphic Design I..... | 3 |

Hardware Track

| | |
|--|---|
| EGCP-2120 Microcontrollers..... | 3 |
| EGCP-3010 Advanced Digital Logic Design | 3 |
| EGCP-4210 Advanced Computer Architecture | 3 |

Video Game Engineering Track

| | |
|--|---|
| CS-4430 Machine Learning for Intelligent Agents..... | 3 |
| CS-4710 Computer Graphics..... | 3 |
| CS-4730 Virtual Reality Applications | 3 |

**The optional computer science tracks allow specialization within the degree by focusing the technical elective hours into a designated area.

Computer Science Major (BS) Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0–4 |
| General Education Requirements..... | 38–41.5 |
| Computer Science Major Requirements | 63–66 |
| Required Cognates | 18 |
| Electives | 2.5–9 |
| Total (minimum, not including proficiency) | 128 |

A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Computer Science — BS

First Year:

| | |
|--|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| CS-1210 C++ Programming..... | 2 |
| CS-1220 Object Oriented Design Using C++ | 3 |
| CY-1000 Introduction to Cybersecurity..... | 3 |
| EGCP-1010 Digital Logic Design | 3 |
| ENG-1400 Composition..... | 3 |
| MATH-1710, 1720 Calculus I and II | 10 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| PHYS-2110 General Physics I | 4 |
| Total | 33 |

Second Year:

| | |
|---|-----------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| CS-2210 Data Structures Using Java | 3 |
| CS-3210 Programming Language Survey | 3 |
| CS-3310 Operating Systems | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| CY-3420 Cyber Defense | 3 |
| EGCP-3210 Computer Architecture | 3 |
| MATH-2520 Discrete Math and Probability Principles for Computer Science | 3 |
| Required cognate elective | 4 |
| Total | 31 |

Third Year:

| | |
|--|-------------|
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| CS-3220 Web Applications | 3 |
| CS-3410 Algorithms..... | 3 |
| CS-3610 Database Organization and Design | 3 |
| CS Technical Electives | 6 |
| EGCP-4310 Computer Networks..... | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| GBIO-1000 Principles of Biology | 3.5 |
| Electives | 2 |
| Total | 32.5 |

Fourth Year:

| | |
|---|-------------|
| CS-3510 Compiler Theory and Practice | 3 |
| CS-4810, 4820 Software Engineering I and II | 7 |
| CS Technical Electives | 3 |
| EGGN-3110 Professional Ethics | 3 |
| EGGN-4010 Senior Seminar | 0 |
| HUM-1400 Introduction to the Humanities | 3 |
| LIT-2XXX Literature Elective | 3 |
| History Elective | 3 |
| Social Science/Global Awareness Elective | 3 |
| Electives | 3.5 |
| Total | 31.5 |

Cyber Operations — Bachelor of Science

Course requirements for the **BS** degree in **cyber operations** are comprised of the following and may be modified by the dean.

Course requirements involve 80 semester hours including:

| | |
|---|-----------|
| Cyber Operations Core Requirements | 57 |
| CS-1210 C++ Programming..... | 2 |
| CS-1220 Object-Oriented Design Using C++..... | 3 |
| CS-2210 Data Structures Using Java | 3 |
| CS-3310 Operating Systems | 3 |
| CS-3410 Algorithms..... | 3 |
| CY-1000 Introduction to Cybersecurity..... | 3 |
| CY-2310 Cyber Forensics | 3 |
| CY-3320 Linux Systems Programming..... | 3 |
| CY-3420 Cyber Defense | 3 |
| CY-4310 Cyber Operations | 3 |
| CY-4330 Software Security..... | 3 |
| *CY-4810 Secure Software Engineering I | 3 |
| *CY-4820 Secure Software Engineering II | 4 |
| EGCP-1010 Digital Logic Design | 3 |
| EGCP-2120 Microcontrollers | 3 |
| EGCP-3210 Computer Architecture | 3 |
| EGCP-4310 Computer Networks..... | 3 |
| EGGN-3110 Professional Ethics | 3 |
| EGGN-4010 Senior Seminar..... | 0 |
| Interdisciplinary elective chosen from the following | 3 |
| CRJU-4160 International and Domestic Terrorism..... | 3 |
| CRJU-4320 Criminal Investigation** | 3 |
| HIST-3080 History & Politics of Russia and Eastern Europe | 3 |
| HIST-3220 History and Politics of the Middle East..... | 3 |
| HIST-4500 Seminar: Warfare Ancient and Modern | 3 |
| ITM-3450 IT Security and Risk Management | 3 |
| PUAD-3690 Public Policy | 3 |
| Other courses with pre-approval of School Dean..... | 3 |
| Technical electives chosen from the following..... | 6 |
| CS-3220 Web Applications | 3 |
| CS-3510 Compiler Theory and Practice..... | 3 |
| CS-3610 Database Organization and Design | 3 |
| EGCP-3010 Advanced Digital Logic Design | 3 |
| EGCP-4210 Advanced Computer Architecture | 3 |
| *Capstone Courses – these courses satisfy the capstone requirement for both the computer science and cyber operations majors. | |
| **CRJU-4320 Criminal Investigation requires a course prerequisite of CRJU-1310 Introduction to Criminal Justice. | |
| Required Cognates..... | 17 |
| MATH-1710,1720 Calculus I and II | 10 |
| MATH-2520 Discrete Math and Probability Principles for Computer Science | 3 |
| PHYS-2110 General Physics I | 4 |

Cyber Operations Major (BS) Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0-4 |
| General Education Requirements | 41.5 |
| Cyber Operations Major Requirements | 63 |
| Required Cognates | 17 |
| Electives | 6.5 |
| Total (minimum, not including proficiency) | 128 |

A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Cyber Operations — BS

First Year:

| | |
|--|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| CS-1210 C++ Programming..... | 2 |
| CS-1220 Object Oriented Design Using C++ | 3 |
| CY-1000 Introduction to Cybersecurity..... | 3 |
| EGCP-1010 Digital Logic Design | 3 |
| ENG-1400 Composition..... | 3 |
| MATH-1710, 1720 Calculus I and II | 10 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| PHYS 2110 General Physics I..... | 4 |
| Total | 33 |

Second Year:

| | |
|---|-----------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| CS-2210 Data Structures Using Java | 3 |
| CS-3310 Operating Systems | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| CY-2310 Cyber Forensics | 3 |
| CY-3420 Cyber Defense | 3 |
| EGCP-3210 Computer Architecture | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| MATH-2520 Discrete Math and Probability Principles for Computer Science | 3 |
| Total | 30 |

Third Year:

| | |
|---|-------------|
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| CS-3410 Algorithms | 3 |
| CY-3320 Linux Systems Programming | 3 |
| CY-4330 Software Security | 3 |
| EGCP-2120 Microcontrollers | 3 |
| EGCP-4310 Computer Networks | 3 |
| Interdisciplinary Elective | 3 |
| Technical Electives | 6 |
| General Electives | 3.5 |
| Total | 33.5 |

Fourth Year:

| | |
|---|-------------|
| CY-4310 Cyber Operations | 3 |
| CY-4810, 4820 Software Engineering I and II | 7 |
| EGGN-3110 Professional Ethics | 3 |
| EGGN-4010 Senior Seminar | 0 |
| GBIO-1000 Principles of Biology | 3.5 |
| LIT-2XXX Literature Elective | 3 |
| HUM-1400 Introduction to the Humanities | 3 |
| History Elective | 3 |
| Social Science/Global Awareness Elective | 3 |
| Electives | 3 |
| Total | 31.5 |





A complete description of the general education requirements is found on page 26.

Mechanical Engineering

Course requirements for the **Bachelor of Science in Mechanical Engineering (BSME) degree** are comprised of the following and may be modified by the dean.

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..... | 0 |
| EGME-1810 Engineering Graphics..... | 1 |
| EGME-2050 Computational Methods..... | 4 |
| 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 | 5 |
| EGME-3150 Heat Transfer..... | 3 |
| EGME-3210 Fluid Mechanics | 3 |
| EGME-3610 Kinematics and Design of Machines | 3 |
| EGME-3850 Mechanical Design | 3 |
| EGME-4660 Automatic Controls | 3 |
| *EGME-4810 Mechanical Engineering Senior Design I | 3 |
| *EGME-4820 Mechanical Engineering Senior Design II | 3 |
| *Engineering Electives (must include one 4000-level course) | 6 |

| | |
|---|------|
| Required Cognates..... | 27.5 |
| ² CHEM-1050 Chemistry for Engineers..... | 3.5 |
| ³ MATH-1710 Calculus I | 5 |
| MATH-1720 Calculus II | 5 |
| MATH-2710 Calculus III | 3 |
| MATH-2740 Differential Equations | 3 |
| PHYS-2110 General Physics I | 4 |
| PHYS-2120 General Physics II | 4 |

¹Satisfies humanities general education requirements.

²Satisfies physical science general education requirements.

³Satisfies mathematics general education requirements.

Engineering electives must have EGXX designation at 3000 or higher level,

**ECON-2110 Essentials of Economics required Social Science elective

*Capstone Course

Mechanical Engineering Major Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0-4 |
| General Education Requirements..... | 41.5 |
| Comprehensive Mechanical Engineering Requirements | 70 |
| Required Cognates | 27.5 |
| Total (minimum, not including proficiency) | 139 |



Suggested Four-Year Curriculum for a Major in Mechanical Engineering

First Year:

| | |
|--|-------------|
| BTGE-1725 The Bible and the Gospel | 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 Healthy Living..... | 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:

| | |
|---|-------------|
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| **ECON 2110 Essentials of Economics | 3 |
| EGEE-3530 Electrical Machines | 3 |
| EGGN-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 | 3.5 |
| Engineering Electives | 6 |
| LIT-2XXX Literature Elective | 3 |
| Total | 36.5 |

**ECON-2110 Essentials of Economics required Social Science elective



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:

| | |
|--|------------|
| 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 |
| EGNN-3710 Biomedical Engineering Research | 2 |
| *Health Science elective | 3–4 |
| 3000/4000-level Engineering elective | 2–3 |

Choose one elective from the following.....

| | |
|---|---|
| EGEE-4610 Medical Imaging | 3 |
| EGME-4560 Biomechanics and Biomaterials | 3 |

In addition, mechanical engineering students selecting the biomedical engineering minor may replace EGEE-3530 Electrical Machines in their major with a 3 credit-hour engineering technical elective, approved by the Dean or Assistant Dean.

Computer Science Minor

The **computer science minor** allows students to take a focused set of courses which will enable them to effectively employ programming within their own discipline. Proficiency in computer programming is a skill which can be a strong asset in virtually every discipline.

Course requirements for the computer science minor involve 27 semester hours including:

| | |
|--|----------|
| CS-1210 C++ Programming | 2 |
| CS-1220 Object-Oriented Design Using C++ | 3 |
| CS-2210 Data Structures Using JAVA | 3 |
| CS-3410 Algorithms | 3 |
| EGCP-1010 Digital Logic Design | 3 |
| MATH-1710, 1720 Calculus I and II | 10 |
| Electives chosen from the following | 3 |
| EGEE-3370 Probability and Random Processes for Engineers | 3 |
| MATH-2520 Discrete Math and Probabilitiy Principles for Computer Science | 3 |

Special Programs

Cooperative Education Program

The **cooperative education program** option has been a traditional program option for engineering education for the last 100 years. The co-op program offers students who want to work an opportunity to gain industrial experience as part of their formal education. Co-op is the established program that the industry has developed with academic institutions to provide supervised work experiences for students. Engineering and computer science students who select this option will require an extra year to obtain their BS 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 | 0 |
| (or EGGN-3921 Co-Op IIA | 0) |
| (and EGGN- 3922 Co-Op IIB | 0) |
| EGGN-3930 Co-Op III | 0 |
| (or EGGN-3931 Co-Op IIIA | 0) |
| (and EGGN- 3932 Co-Op IIIB | 0) |

Engineering Honors Program

The **engineering honors program** is designed to challenge exceptional students and encourage them to reach their highest possible potential. Because the program is integrated with the University's honors program, students who wish to participate must first be admitted into the honors program; the details are listed in the Interdisciplinary Studies section (page 213). Admission can occur in either the freshman or sophomore year. Admission to the engineering honors program occurs after the student completes the sophomore year. A cumulative GPA of 3.5 or higher is required for participation.

Engineering coursework involves taking the honors version of three courses and one additional engineering elective course. These engineering honors courses are the regularly scheduled courses and are taken with other students, but they have enrichment opportunities and exposure to advanced topics through special assignments and extra sessions with the professor.

Course requirements for the engineering honors program include:
HON-1010 and 1020 Making of the Modern Mind
(substitutes for HUM-1400 and HIST elective)

EGXX-4XXX Additional Engineering Elective

Honors version of the following courses:

Requirements for civil engineering majors include:
EGCE-3610 Environmental Engineering

Level II CE Design Elective

 EGCE-3220 Design of Water Distribution Systems
 or EGCE-3520 Design of Steel Structures

Level III CE Design Elective

 EGCE-4510 Reinforced Concrete Design
 or EGCE-4610 Design of Water Treatment Systems

Requirements for computer engineering majors include:

EGCP-3010 Advanced Digital Logic Design.....

EGCP-4210 Advanced Computer Architecture.....

EGEE-3210 Electronics I

Requirements for electrical engineering majors include:

EGEE-3210 Electronics I

EGEE-3330 Communications Theory.....

EGEE-4410 Feedback Controls

Requirements for mechanical engineering majors include:

EGME-3110 Thermodynamics

EGME-3850 Mechanical Design

EGME-4660 Automatic Controls

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.



School of **NURSING**
CEDARVILLE UNIVERSITY

Dr. Angelia Mickle, *Dean*

| | |
|-----------------------------------|-----|
| Nursing | 172 |
| Majors | |
| Nursing..... | 177 |
| Minor | |
| Cross-Cultural Nursing Minor..... | 178 |



Nursing

Mission Statement

The School of Nursing models nursing as a ministry for Christ through education, service, and scholarship resulting in transformed lives.

Accreditation and Licensure

The Bachelor of Science in Nursing program at Cedarville University is accredited by the Commission on Collegiate Nursing Education (<http://www.ccneaccreditation.org>) and has full approval from the Ohio Department of Higher Education and Ohio Board of Nursing.

Programs of Study

Cedarville's nursing program leads to a Bachelor of Science in Nursing (BSN) degree. Nursing students may also elect to earn a minor in cross-cultural 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. 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. Historically, an ACT composite score of 24 (or SAT composite of 1160) or higher has been a good indicator for students success as a nursing major

- Only nursing majors may take 2000 level and above nursing courses
- Only nursing majors may enroll in clinical courses.
- Admission to the School of Nursing is contingent upon available clinical/classroom space.



Admission Criteria for Transferring from Another Nursing Program

Every year the Cedarville University School of Nursing receives transfer requests from students who are enrolled in various nursing programs around the country. Admission to the School of Nursing is contingent upon available clinical/classroom space. These are the requirements that must be met in order for students to transfer from another nursing program into the Cedarville University School of Nursing BSN program.

1. Students applying for transfer at Checkpoint #1 (end of first freshman semester / prior to NSG-1050 and NSG-1055) must meet all Checkpoint #1 requirements.
2. Students applying for transfer at Checkpoint #2 (end of freshman year or equivalent) must meet all Checkpoint #2 requirements.
3. Students applying for transfer at Checkpoint #3 (mid sophomore year or equivalent) must meet all Checkpoint #3 requirements except the requirement that they have no more than four remaining general education/Bible classes at the start of their junior year.
4. Students applying for transfer at Checkpoint #4 (end sophomore year or equivalent) must meet all Checkpoint #4 requirements.
5. If a transfer candidate has received a failing grade or WF (withdraw fail) in two previous nursing courses, they will not be admitted to the program.
6. A transfer candidate who has a single failure in any previous nursing course will result in the student being admitted on academic probation.
7. If a transfer candidate is admitted on academic probation, they will be required to meet all academic probation standards until graduation.
8. Students may request transfer credit for the following nursing courses by submitting their transcript and course syllabus:
 - a. NSG-1000 (Member of Nursing Profession)
 - b. NSG-1050/1055 (Health Promotion and Wellness/ Experiences in Health Promotion)
 - c. NSG-2000 (Roles in Disease Prevention)
 - d. NSG-2050 (Roles in Disease Management) – See details below (#9)
 - e. NSG-3110 (Pharmacology)
9. Students may request transfer credit for NSG-2050 (Roles in Disease Management) by submitting their transcript and course syllabus, and passing skills validation per course requirements.
10. All students who transfer into the Cedarville University BSN program must take:
 - a. NSG-2800 (Special Topics in Nursing) (1–3 credits) required for progression. To be taken during first semester at Cedarville University for those entering at Checkpoint #2 or after.
 - b. NSG-3000 (Nursing Care of Ill Adults)
 - c. NSG-3010 (Care of Women and Newborns)
 - d. NSG-3030 (Care of Children)
 - e. NSG-3050 (Behavioral and Mental Health Care)
 - f. NSG-3930 (Nursing Research and EBP)
 - g. NSG-4000 (Care of Populations)
 - h. NSG-4030 (Complex Care Management)
 - i. NSG-4020 (Leadership and Management)
 - j. NSG-4060 (Transition into Practice)
 - k. NSG-4950 (Seminar in Nursing)



Progression

Students must fulfill academic, nonacademic, and technical requirements in order to progress in the nursing program. In addition, students must receive a positive recommendation from the faculty of the School of Nursing each semester.

Checkpoint #1

- End of freshman fall semester
- Student must have an unrounded cumulative GPA of 2.5 or higher to progress to NSG-1050 and 1055 for spring semester of freshman year.
- If GPA is less than (<) 2.5:
 - Change major
 - Five-year plan
- Meets all academic requirements

Checkpoint #2

- End of freshman year; after May session grades have been submitted
- Students must have an unrounded cumulative GPA of 3.0 or higher to progress to sophomore-level (2000) nursing courses.
- If GPA less than (<) 3.0:
 - Change major
 - Five-year plan
 - Request for extension of GPA audit (see nursing student handbook)
- Meets all academic requirements

Checkpoint #3

- A transcript audit will be performed early spring semester of sophomore year to verify:
 - Student is on track for progression to junior-year plan
 - Student has earned C- or higher in all nursing, psychology, and science courses
 - Anything less than C- must be repeated and may be repeated one time only
 - Student has no more than four remaining general education/Bible courses at start of junior-year clinical courses. General Psychology and Statistics must be completed prior to the start of the junior year.
 - Meets all academic requirements
- Students will be permitted to progress into 3000-level clinical courses depending on availability of faculty and clinical sites. In the event numbers of eligible students exceed clinical site availability, registration for 3000-level clinical courses will be ranked by GPA.

Checkpoint #4

- End of Sophomore year; after May session grades have been submitted
- Students must have an unrounded cumulative GPA of 3.0 or higher to progress to 3000-level clinical courses.
- If GPA less than (<) 3.0:
 - Change major
 - Five-year plan
 - Request for extension of GPA audit (see nursing student handbook)
- Meets all academic requirements

Academic Requirements

1. Maintain GPA as follows:
 - a. End of First Semester GPA 2.5 to progress to NSG-1050 and NSG-1055.
 - b. End of freshman year unrounded cumulative GPA of 3.0 or higher
 - c. End of sophomore year unrounded cumulative GPA of 3.0 or higher

- d. End of fall semester of junior year (or first 3000-level clinical course) through to graduation, unrounded cumulative GPA 2.5 or higher

2. Any course for which the minimal grade is not achieved must be repeated.
 - a. A C- or higher is required in all nursing, psychology, and science courses:
 - i. CHEM-1000 Principles of Chemistry
 - ii. GBIO-1010 Basics of the Cell
 - iii. GBIO-2010 Human Anatomy and Physiology I
 - iv. GBIO-2015 Human Anatomy and Physiology II
 - v. GBIO-2210 Principles of Microbiology
 - vi. PYCH-1600 General Psychology
 - vii. PYCH-2610 Statistics
 - b. Students may repeat a course one time only.
3. Earn a weighted exam average of 75% or higher (unrounded) 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.
4. A student receiving less than C- in a nursing course will fail the course
 - a. A failing grade in two 2000-level or higher nursing courses in the same or subsequent semesters will result in removal from the program.
 - b. 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 warning, 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 may be changed to probation.

Removal From Nursing Major

A student will be removed from the major for the following reasons:

- Failure to meet academic, nonacademic, technical, or clinical requirements while on probation.
- Demonstration of behavior that is not consistent with professional standards concerning health, safety, ethics, and behavior as specified by the Ohio Board of Nursing and the nursing student handbook.
- Second 2000-level or higher nursing course failure or violation of nonacademic/technical requirements.

Readmission when a student has been removed from the nursing major may be considered only under extreme circumstances and provided the student has been out of the nursing major for at least one calendar year.

Graduation

Candidates for the BSN 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 (BSN) degree. Nursing students may also elect to earn a minor in cross-cultural nursing.

Cocurricular Opportunities

Nursing Honor Society (NHS)

The Nursing Honor Society is an organization comprised of junior and senior nursing students whose grades rank in the top 35 percent of their class. Induction into this organization signifies academic excellence and provides unique opportunities to participate in academic enrichment, networking events, and professional development. From its initial launch in 2016, the organization has grown to induct 76 members in the last academic year.

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.

Cedarville University Emergency Medical Services

CU EMS is a volunteer ambulance service run and manned entirely by students from Cedarville University who are EMTs or paramedics.

Disaster Preparedness

Students in the School of Nursing have the opportunity to participate in disaster preparedness initiatives within the local community.

School of Nursing Committee Service

The faculty of the School of Nursing encourage student representation and participation in governance of the school. Placement on committees is an important right that provides a student voice in the School of Nursing. Student representation and participation is encouraged in the BSN Curriculum and Assessment Committee and the School of Nursing Faculty organization Connections Committee.

Technical Resources

- State-of-the-art high-fidelity simulation center
- Moderate fidelity clinical nursing and practice centers

Career Opportunities

Graduate and professional schools welcome Cedarville graduates. Nursing graduates obtain positions in the following settings: medical centers, public health departments, home health agencies, clinics, nursing homes, schools, work sites, mental health facilities, and mission fields.

**Faculty**

Angelia Mickle, Dean; Associate Professor of Nursing. *Education:* AAS Nursing, Central Carolina Community College, 1991; BSN, Indiana Wesleyan University, 1999; MSN, Indiana Wesleyan University, 2008. DNP, University of Tennessee, 2013. Post Master's Certificate, Psychiatric Mental Health Nurse Practitioner, University of Cincinnati, 2017. At Cedarville since 2008.

Suzanne Lefever, Assistant Dean; Director of Undergraduate Programs; Associate Professor of Nursing. *Education:* BSN, Goshen College, 1983; MS, SUNY-Stony Brook Neonatal Nurse Practitioner Program, 2004. At Cedarville since 2001.

Carolyn Barnett, Associate Professor of Nursing. *Education:* LPN, Lewis Wilson Technological Center, 1979; BSN, Cedarville University, 1986; MSN, University of Phoenix, 2006; Global Public Health Nursing Certificate, 2019. At Cedarville since 1997.

Sarah Compton, Assistant Professor of Nursing. *Education:* BSN, Cedarville University, 2011; MSN, Western Governor's University, 2017. At Cedarville since 2017.

Michele Dodds, Assistant Professor of Nursing. *Education:* BSN, Morehead State University, 1994; MSN, Wright State University, 2000; DNP, Indiana Wesleyan University, 2020. At Cedarville since 2021.

Jason Grimm, Assistant Professor of Nursing. *Education:* BSN, University of Oklahoma, 1999; MS, University of Maryland, 2008; DNP, Texas Christian University, 2016. At Cedarville since 2019.

Nate Kincaid, Assistant Professor of Nursing. *Education:* BSN, Wright State University, 2006; MSN, Grand Canyon University, 2018. At Cedarville since 2019.

Scott Long, Assistant Professor of Nursing. *Education:* AS, Ohio University-Chillicothe, 2004; BSN, Ohio University, 2007; MS, Wright State University, 2017 Adult-Gero Acute Care Nurse Practitioner; DNP, Vanderbilt University School of Nursing, 2022. At Cedarville since 2019.

Brenda Miller, Assistant Professor of Nursing. *Education:* BSN Wright State University, 1988; MSN, Indiana Wesleyan University, 2008. At Cedarville since 2021.

Amanda Minor, Assistant Professor of Nursing. *Education:* BSN, Cedarville University, 2007; MSN Cedarville University, 2013. At Cedarville since 2021.

Ruth Mosher, Assistant Professor of Nursing. *Education:* AD, Miami University, 1983; BA, Miami University, 1996; MSN-Ed., Indiana Wesleyan University, 2014; DNP, Chamberlain University, 2021. At Cedarville since 2021.

Jenna Orme, Assistant Professor of Nursing. *Education:* BSN, Cedarville University, 1996; MSN, Cedarville University, 2019. At Cedarville since 2019.

Lisa Smithers, Associate Professor of Nursing. *Education:* BS, Wright State University, 1991; BSN, Wright State University, 2000; MSN, The Ohio State University, 2004. At Cedarville since 2016.

Nancy J. Stell, Assistant Professor of Nursing. *Education:* BSN, West Suburban College of Nursing, 1987; MSN, Chamberlain College of Nursing, 2012. At Cedarville since 2022.

Rebecca Wagner, Associate Professor of Nursing. *Education:* BSN, University of Delaware, 1977; MSN, University of Phoenix, 2007; EdD, Liberty University, 2014. At Cedarville since 2014.

Marcia Williams, Assistant Professor of Nursing. *Education:* BSN Cedarville University, 1994; MSN Family Nurse Practitioner, Cedarville University, 2013; MSN Nursing Education, Cedarville University, 2018; PhD, The University of Utah, 2023. At Cedarville since 2021.

Technical Support Staff

Karen Callan, Coordinator of Nursing Laboratory Facilities. *Education:* BSN, Cedarville University, 1985. At Cedarville since 1992.

Rhonda Dodson, BSN Program Advisor. *Education:* BSN, Sharon General Hospital School of Nursing, 1980; Project Management Professional Certificate, 2018. At Cedarville since 2019.

Rhonda Smith, Compliance Advisor for BSN Student Success. *Education:* BSN, Lynchburg College, 1988; MSN Chamberlain University, 2018. At Cedarville since 2000.

Emeriti

Irene Alyn, Distinguished Professor Emerita of Nursing.

Education: BA, Taylor University, 1962; Diploma, Cook County School of Nursing, 1962; MSN, University of Illinois, 1965; PhD, University of Illinois, 1972. At Cedarville 1981–2007.

Carolyn Carlson, Distinguished Professor Emerita of Nursing. *Education:* BS, Capital University, 1959; MS, U.C.L.A., 1962; MA, University of Colorado, 1972; PhD, University of Colorado, 1972. At Cedarville 1988–2007.

Janet Conway, Senior Professor Emerita of Nursing. *Education:* Diploma, Hackley Hospital School of Nursing, 1965; BSN, Coe College, 1976; MS, University of Arizona, 1979; Specialist in Clinical Nursing, Indiana University, 1982; PhD, University of Texas, 1988. At Cedarville 1982–2013.

Mark Klimek, Associate Professor of Nursing. *Education:* AAS Nursing, Youngstown State University, 1974; BSN, University of Virginia, 1977; MSN, Wayne State University, 1979; graduate study, Wayne State University, 1987. At Cedarville since 1983.

Judith Shrubsole, Associate Professor Emerita of Nursing. *Education:* Diploma, Hamilton Civic Hospital School of Nursing, 1965; Diploma, University of Western Ontario, 1967; BScN, University of Western Ontario, 1968; MS, D'Youville College, 1992; PhD, 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 or Clinical Teaching Assistants. The program utilizes a number of community resources including public and private, large and small hospitals, health departments, mental health services, rehabilitation centers, clinics, homes for the aged, and physician's offices.

Age Requirement

Students must be 18 years old prior to the start date of the clinical experience in their first clinical course.

Clinical Requirements

Students are required to have a background check, current CPR/BLS certification, uniforms, equipment, photo identification, and transportation for clinical experiences. Nursing students are required to furnish proof of private health insurance.

Health Requirements

All students must be clinically compliant prior to starting clinical courses and maintain compliance throughout the clinical experience. Failure to do so will prevent the student from attending clinicals, and the student will be instructed to withdraw from the course.

The School of Nursing will establish the due date for clinical compliance requirements to be met. Students must provide and upload all the following documentation to their CastleBranch(CB) profile for clinical compliance review:

- Complete physical examination. Students will receive the physical examination form from the School of Nursing office. The exam must be dated on or after June 1 of the first semester in the nursing program.
- A complete list of childhood immunizations is required. Immunizations must be up to date.
- Negative 2-step Mantoux test. Clinical agencies require a negative chest x-ray in the event of a positive TB skin test.
- Clinical sites require documentation of Tdap within the last 10 years prior to starting clinical experience.
- Hepatitis B vaccine series and Hepatitis B Surface Antibody titer. If titer is negative, the complete Hep B series must be repeated, followed by a repeat Hep B Surface Antibody titer.
- Influenza vaccination yearly.
- Complete COVID vaccine series.
- Other vaccines as required by clinical sites.
- Other documentation as requested. The School of Nursing may request further documentation when a student's ability to practice according to acceptable and prevailing standards of safe nursing care is uncertain.
- Proof of current personal health insurance. All students enrolled in clinical courses must have current health insurance coverage. Any injury or medical care received at a clinical site is the responsibility of the student and will be charged to the student healthcare insurance.

Program Fee

A comprehensive program fee of \$250 per year is required for all students with majors in the School of Nursing. This fee is billed at the rate of \$125 per semester.

Additional Required Program Expenses (estimated)

Year 1 and 2: \$500–\$2000 (laptop is required, scrubs, clinical equipment, CPR/BLS certification, immunizations, physical exam, background check, transportation expenses, academic resources)

Year 3: \$350–\$650 (immunization updates, CPR recertification, transportation expenses, scrubs)

Year 4: \$1,400–\$1,800 (licensure application, NCLEX-RN registration, background check, immunizations updates, transportation expenses)





Nursing

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, 23 semester hours, many of which satisfy general education requirements, include:

| | |
|---|---|
| CHEM-1000 Principles of Chemistry | 4 |
| GBIO-1010 Basics of the Cell | 1 |
| GBIO-2010 Human Anatomy and Physiology I | 4 |
| GBIO-2015 Human Anatomy and Physiology II | 4 |
| GBIO-2210 Principles of Microbiology | 4 |
| PYCH-1600 General Psychology | 3 |
| PYCH-2610 Statistics..... | 3 |

The nursing major requirements involve 71 semester hours including:

| | |
|---|---|
| NSG-1000 Member of Nursing Profession..... | 2 |
| NSG-1050 Health Promotion and Wellness..... | 3 |
| NSG-1055 Experiences in Health Promotion..... | 1 |
| NSG-2000 Roles in Disease Prevention..... | 4 |
| NSG-2050 Roles in Disease Management..... | 4 |
| NSG-3000 Care of III Adults | 6 |
| NSG-3010 Care of Women and Newborns | 6 |
| NSG-3030 Care of Children..... | 6 |
| NSG-3050 Behavioral and Mental Healthcare..... | 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..... | 6 |
| NSG-4060 Transition Into Practice..... | 6 |
| *NSG-4950 Seminar in Nursing..... | 3 |

*Capstone Course

Nursing Major Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0-4 |
| Other General Education Requirements..... | 35 |
| Nursing Major Requirements | 71 |
| Required Cognates..... | 23 |
| Total (minimum, not including proficiency) | 129 |

A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Nursing

First Year:

| | |
|--|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| BTGE-2730 Old Testament Literature..... | 3 |
| CHEM-1000 Principles of Chemistry | 4 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| GBIO-1010 Basics of the Cell | 1 |
| 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 Healthy Living..... | 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 Care of Women and Newborns | 6 |
| NSG-3030 Care of Children..... | 6 |
| NSG-3050 Behavioral and Mental Healthcare..... | 6 |
| NSG-3930 Nursing Research and Evidence-Based Practice | 3 |
| Total | 33 |

Fourth Year:

| | |
|--|-----------|
| 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 |



**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:

| | |
|--|----------|
| BTAT-3200 Introduction to Missions: Theology and History | 3 |
| NSG-1170 Cross-Cultural Motivation..... | 1 |
| NSG-2170 Cross-Cultural Awareness | 1 |
| NSG-3170 Culture and Health..... | 3 |
| NSG-4170 Cross-Cultural Response..... | 1 |
| One course selected from..... | 1 |
| NSG-3270 Cross-Cultural Nursing Internship..... | 1–3 |
| NSG-4800 Independent Study..... | 1–3 |
| One Missiology course selected from | 3 |
| BTAT-2400 Introduction to Evangelism..... | 3 |
| BTAT-3470 Cross-Cultural Ministry..... | 3 |
| Credits selected from..... | 3 |
| ANTH-1800 Cultural Anthropology..... | 3 |
| COM-2140 Intercultural Communication | 3 |
| INTL-2100 Global Issues..... | 3 |
| XXXX-Language (Any level foreign language)..... | 3 |





Dr. Jeffrey Bates, *Dean*

Pharmacy..... 180

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Bachelor of Science in Pharmaceutical Sciences. 183



Pharmacy

Admission/Preferred Admission

The Bachelor of Science in Pharmaceutical Sciences (BSPS) degree curriculum includes courses in the professional Doctor of Pharmacy (PharmD) degree curriculum, which are only accessible to students who have been admitted to the PharmD program (unless an exception is granted by the School of Pharmacy). The BSPS degree curriculum includes all of the courses required for admission to the Cedarville University Doctor of Pharmacy program. BSPS students will apply for the PharmD program the year before starting the professional program. Students are required to complete the PharmD application in PharmCAS and interview for admissions to the School of Pharmacy. The final course in the BSPS degree curriculum is typically completed during the spring semester of the first professional (P1) year in the Doctor of Pharmacy program.

Students intending to pursue a career in pharmacy - thus, pursue a PharmD degree – should choose pharmaceutical sciences as their major. NOTE: Failure to be granted admission to the PharmD program (which would occur during the academic year prior to the 1st professional (P1) year in the PharmD program), or be granted an exception to complete the BSPS 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 be considered for Preferred Admission to the PharmD 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 PharmD program, associated with a specific School-established start date in the PharmD 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 are then considered for preferred admission to the School of Pharmacy. Those students selected for preferred admission based on their academic performance may compete for additional scholarships. Consideration for preferred admission is based upon the following criteria:

1. Declared interest in pharmacy
2. Academic curriculum
3. Cumulative GPA (high school or collegiate)

Students who do not qualify for preferred admission as a new student may still take the BSPS curriculum and apply for Preferred Admission, or make direct application to the PharmD 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:

1. Maintain a cumulative undergraduate GPA of at least 3.00. For purposes of Preferred Admission, the School of Pharmacy calculates the GPA using a course-repeat 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 BSPS degree curriculum with an aim toward regaining Preferred Admission status and/or applying directly to the PharmD program at the appropriate time.

2. Earn a minimum grade of "C" in all courses identified as prerequisites for admission to the PharmD program (see Graduate Academic Catalog). Students may repeat any course for which a "C" was not earned. Exceptions to this requirement are applied to select two-semester sequence courses (General Chemistry, Organic Chemistry, Human Anatomy and Physiology) 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 PharmD program are found in the Graduate Academic Catalog.

Financial Aid

BSPS students benefit from all scholarship programs available to other Cedarville University students. For students continuing into the professional PharmD program (completing their BSPS 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.

Career Opportunities

The demand for pharmacists appears to be strong for many years to come. Current shortages as well as changes and advances in science and healthcare will create abundant opportunities for pharmacy graduates. These opportunities may include:

- Clinical specialist in pediatrics, internal medicine, cardiology, oncology, critical care, infectious disease, psychiatry, etc.
- Ambulatory care pharmacist
- Industry specialist, including research, medical science liaison, etc.
- Hospital pharmacist
- Community pharmacist
- Emergency medicine pharmacist
- Pharmacy leadership and administration
- Informatics and analytics pharmacist
- Managed care pharmacist
- Population health pharmacist
- Consultant pharmacist in geriatrics, palliative care, etc.
- Long-term care pharmacist
- Veterinary pharmacist
- Nuclear pharmacist

**Faculty**

Jeffrey Bates, Dean; Professor of Pharmacy Practice. *Education:* BS, Ferris State University, 1991; PharmD, Ferris State University, 2007; At Cedarville since 2016.

Aleda Chen, Associate Dean; Professor of Pharmacy Practice. *Education:* PharmD, Ohio Northern University, 2006; MS, Purdue University, 2009; PhD, Purdue University, 2011. At Cedarville since 2011.

Thad Franz, Assistant Dean; Professor of Pharmacy Practice. *Education:* BS, Pharmaceutical Science, The Ohio State University, 2003; PharmD, The Ohio State University, 2005. At Cedarville since 2012.

Department of Pharmacy Practice

Justin Cole, Chair, Pharmacy Practice; Director, Center for Pharmacy Innovation; Associate Professor of Pharmacy Practice. *Education:* PharmD, Ohio Northern University, 2006. At Cedarville since 2016.

Andrew Straw, Vice Chair, Pharmacy Practice; Associate Professor of Pharmacy Practice. *Education:* PharmD, Ohio Northern University, 2014. At Cedarville since 2015.

Robert Bechtol, Assistant Professor of Pharmacy Practice. *Education:* BS, Pharmaceutical Sciences, University of Toledo, 2005; MS, Pharmaceutical Sciences, Administrative Pharmacy, University of Toledo, 2007; PhD, Social and Administrative Pharmacy, University of Minnesota, 2022. At Cedarville since 2021.

Juanita Draime, Assistant Professor of Pharmacy Practice. *Education:* PharmD, Cedarville University, 2016. At Cedarville since 2016.

McKenzie Grinalds, Assistant Professor of Pharmacy Practice. *Education:* PharmD, Cedarville University, 2017. At Cedarville since 2019.

Alexandra Hintz, Assistant Professor of Pharmacy Practice. *Education:* PharmD, University of Charleston, 2015. At Cedarville since 2018.

Jeff Huston, Director, Pharmacy Practice Lab; Associate Professor of Pharmacy Practice. *Education:* BS, Pharmacy, Ohio Northern University, 1990; PharmD, Shenandoah University, 2018. At Cedarville since 2010.

Zach Jenkins, Director, APPE Education; Associate Professor of Pharmacy Practice. *Education:* PharmD, Northeast Ohio Medical University. At Cedarville since 2013.

Emily Laswell, Associate Professor of Pharmacy Practice. *Education:* PharmD, Ohio Northern University, 2012. At Cedarville since 2013.

Brenda Pahl, Director, IPPE Education; Associate Professor of Pharmacy Practice. *Education:* BS, Ohio Northern University, 1991; PharmD, The Ohio State University, 2007. At Cedarville since 2015.

Bethany Sibbitt, Associate Professor of Pharmacy Practice. *Education:* PharmD, Cedarville University, 2016. At Cedarville since 2017.

Nathanael Smith, Assistant Professor of Pharmacy Practice. *Education:* BSPS, Cedarville University, 2014; PharmD, Cedarville University, 2017. At Cedarville since 2018.

Stephanie Tubb, Assistant Professor of Pharmacy Practice. *Education:* PharmD, Cedarville University, 2017. At Cedarville since 2020.

Department of Pharmaceutical Sciences

Samson Amos, Chair, Pharmaceutical Sciences; Associate Professor of Pharmaceutical Sciences. *Education:* BPharm, Ahmadu Bello University, Nigeria, 1989; MSc., University of Jos, Nigeria, 1998; PhD, University of Nigeria, 2002. At Cedarville 2013.

Melissa Beck, Associate Professor of Pharmaceutical Sciences. *Education:* BS, Ashland University, 1995; PhD, University of Michigan, 2001. At Cedarville since 2013.

Elisha Injeti, Associate Professor of Pharmaceutical Sciences. *Education:* BS, Andhra University, 1995; MS, Andhra University, 1997; Post Baccalaureate Certificate, Biomedical and Clinical Ethics, Loma Linda University, 2002; PhD, Loma Linda University, 2008. At Cedarville since 2009.

Denise Jean-Louis, Associate Professor of Pharmaceutical Sciences. *Education:* BS, University of the West Indies, 1999; PhD, 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.

Timothy Veenstra, Associate Professor of Pharmaceutical Sciences. *Education:* BS Biochemistry, Trent University, 1990; PhD Biochemistry, University of Windsor, Windsor, Ontario Canada, 1994. At Cedarville since 2019.





School of Pharmacy

Mission

Cedarville University School of Pharmacy equips student pharmacists to assess and meet the comprehensive health needs of diverse populations through patient-centered care, servant leadership, ethical decision-making, interprofessional collaboration, scholarly innovation, and continued personal professional development.

Values

Character—Regarding character as a foundation for compassionate care, clear perspectives, and ethical decisions, the school considers the development of godly character as its highest priority in the lives of its students.

Global Focus—The school embraces a global perspective, 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 internally, and interprofessionally, 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 to issues 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.

Servant Leadership—The school equips students to serve others with distinctive leadership in their personal and professional lives, placing the needs of others above their own and leading efforts to make a difference in the community.

Regional Accreditation

The University is accredited by the Higher Learning Commission. The Higher Learning Commission has approved the University to award the Doctor of Pharmacy degree.

Cedarville University School of Pharmacy's Doctor of Pharmacy program is accredited by the Accreditation Council for Pharmacy Education, 135 South LaSalle Street, Suite 4100, Chicago, IL 60503, 312-664-3575; FAX 312-664-4652, website acpe-accredit.org.



A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Pharmaceutical Sciences - BS

First Year:

| | |
|---|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| BTGE-2730 Old Testament Literature..... | 3 |
| BIO-1115 Biology I: Cell Biology..... | 4 |
| CHEM-1110, 1120 General Chemistry | 8 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| MATH-1700 Calculus and Dynamical Systems for Life Science | 4 |
| (or MATH-1710 Calculus I.....) | 5 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| PPHR-2013, 2014 Profession of Pharmacy-Careers..... | 2 |
| Total | 32 |

Second Year:

| | |
|---|-----------|
| BTGE-2740 New Testament Literature | 3 |
| BTGE-3755 Theology I..... | 3 |
| BIO-1120 Biology II: Zoology | 4 |
| (or BIO-1XXX, 2XXX, or 3XXX Biology elective)..... | 4 |
| CHEM-3510 Organic Chemistry I | 4 |
| CHEM-3520 Organic Chemistry II | 4 |
| GBIO-2010 Anatomy and Physiology I..... | 4 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| PPHR-1011 Profession of Pharmacy - Intro to Public Health | 1 |
| Humanities Elective | 3 |
| Social Science/Global Awareness Elective..... | 3 |
| Total | 32 |

Third Year:

| | |
|---|-----------|
| BIO-3765 Theology II | 3 |
| BIO-2210 Microbiology | 4 |
| GBIO-2015 Anatomy and Physiology II..... | 4 |
| GBIO-3350 Principles of Immunology | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| PHYS-1010 College Physics I | 4 |
| (or PHYS-2110 General Physics I | 4 |
| PPHR-1012 Profession of Pharmacy - History and Issues | 1 |
| LIT-2XXX Literature Elective | 3 |
| History Elective | 3 |
| Electives | 5 |
| Total | 33 |

Fourth Year:

| | |
|---|-----------|
| *PHAR-6110 Introduction to Pharmacy Practice | 1 |
| *PHAR-6111 Research Design and Methodology..... | 3 |
| *PHAR-6112 Introduction to Self-Care..... | 3 |
| *PHAR-6121 Pharmacy Practice Lab I | 1 |
| *PHAR-6122 Pharmacy Practice Lab II | 1 |
| *PHAR-6130 Medicinal Biochemistry | 4 |
| *PHAR-6131 Pharmaceutical Sciences..... | 5 |
| *PHAR-6132 Integrated Medicinal Chemistry and Pharmacology..... | 5 |
| *PHAR-6134 Pharmacokinetics and Biopharmaceutics | 4 |
| *PHAR-6137 Immunology, Immunotherapy, & Pharmacogenomics .. | 4 |
| Total | 31 |

*Note: The advanced professional pharmacy curriculum is described in the Graduate Catalog and available upon request from pharmacy admissions.

Bachelor of Science in Pharmaceutical Sciences

This degree serves as the foundation for advanced study in pharmacy or the pharmaceutical sciences as well as career opportunities in pharmacy and the pharmaceutical industry.

Course requirements involve 123 semester hours including:

| | |
|---|------------|
| Biblical Education | 15 |
| BTGE-1725 The Bible and the Gospel | 3 |
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| BTGE-3755 Theology I..... | 3 |
| BTGE-3765 Theology II | 3 |
| Communication | 6 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| Humanities | 9 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| LIT-2XXX Literature Elective | 3 |
| Humanities Elective | 3 |
| Physical Education..... | 2 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Social Sciences and History..... | 9 |
| GSS-1100 Politics and American Culture..... | 3 |
| History Elective | 3 |
| Social Science/Global Awareness Elective..... | 3 |
| Cognates | 47 |
| BIO-1115 Biology I: Cell Biology..... | 4 |
| BIO-1120 Biology II: Zoology | 4 |
| (or BIO-1XXX, 2XXX, or 3XXX Biology elective)..... | 4 |
| BIO-2210 Microbiology | 4 |
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| CHEM-3510, 3520 Organic Chemistry I and II | 8 |
| GBIO-2010, 2015 Human Anatomy & Physiology I and II | 8 |
| GBIO-3350 Principles of Immunology | 3 |
| MATH-1700 Calculus and Dynamical Systems for Life Science | 4 |
| (or MATH-1710 Calculus I.....) | 5 |
| PHYS-1010 College Physics I | 4 |
| (or PHYS-2110 General Physics I | 4 |
| Pharmaceutical Sciences | 35 |
| PPHR-1011 Profession of Pharmacy—Introduction to Public Health..... | 1 |
| PPHR-1012 Profession of Pharmacy—History and Issues | 1 |
| PPHR-2013 Profession of Pharmacy—Careers I | 1 |
| PPHR-2014 Profession of Pharmacy—Careers II | 1 |
| *PHAR-6110 Introduction to Pharmacy Practice | 1 |
| *PHAR-6111 Research Design and Methodology..... | 3 |
| *PHAR-6112 Introduction to Self-Care..... | 3 |
| *PHAR-6121 Pharmacy Practice Lab I | 1 |
| *PHAR-6122 Pharmacy Practice Lab II | 1 |
| *PHAR-6130 Medicinal Biochemistry | 4 |
| *PHAR-6131 Pharmaceutical Sciences..... | 5 |
| *PHAR-6132 Integrated Medicinal Chemistry and Pharmacology and Pharmacology | 5 |
| *PHAR-6134 Pharmacokinetics and Biopharmaceutics | 4 |
| *PHAR-6137 Immunology, Immunotherapy, and Pharmacogenomics .. | 4 |
| Total (minimum, not including proficiency) | 128 |

*The advanced professional pharmacy course descriptions can be found in the graduate catalog.

Pharmaceutical Sciences Major Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0-4 |
| General Education Requirements..... | 41 |
| Pharmaceutical Sciences Major Requirements | 35 |
| Cognate Requirements | 47 |
| General Electives | 5 |
| Total (minimum, not including proficiency) | 128 |



A complete description of the general education requirements is found on page 26.

Suggested Three-Year Curriculum Accelerated Pathway for a Major in Pharmaceutical Sciences - BS

Fall Year 1:

| | |
|---|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| BIO-1115 Biology I: Cell Biology..... | 4 |
| CHEM-1110 General Chemistry I..... | 4 |
| MATH-1700 Calculus and Dynamical Systems for Life Science | 4 |
| (or MATH-1710 Calculus I)..... | 5 |
| PPHR-2013 Profession of Pharmacy-Careers | 1 |
| Total | 16 |

Spring Year 1:

| | |
|--|-----------|
| BTGE-2730 Old Testament Literature..... | 3 |
| CHEM-1120 General Chemistry II | 4 |
| ENG-1400 Composition..... | 3 |
| GBIO-2010 Anatomy and Physiology I..... | 4 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| PPHR-2014 Profession of Pharmacy-Careers | 1 |
| Total | 17 |

Summer Year 1:

| | |
|---|-----------|
| BTGE-2740 New Testament Literature | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| History Elective..... | 3 |
| Social Science/Global Awareness Elective..... | 3 |
| Total | 15 |

Fall Year 2:

| | |
|--|-----------|
| BTGE-3755 Theology I..... | 3 |
| BIO-1120 Biology II: Zoology | 4 |
| (or BIO-1XXX, 2XXX, or 3XXX Biology elective)..... | 4 |
| CHEM-3510 Organic Chemistry I | 4 |
| GBIO-2015 Anatomy and Physiology II..... | 4 |
| PPHR-1011 Profession of Pharmacy—Intro to Public Health..... | 1 |
| Total | 16 |

Spring Year 2:

| | |
|---|-----------|
| BIO-2210 Microbiology | 4 |
| CHEM-3520 Organic Chemistry II | 4 |
| GBIO-3350 Principles of Immunology | 3 |
| PHYS-1010 College Physics I | 4 |
| (or PHYS-2110 General Physics I)..... | 4 |
| PPHR-1012 Profession of Pharmacy—History and Issues | 1 |
| Total | 16 |

Summer Year 2:

| | |
|---|-----------|
| BTGE-3765 Theology II | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| LIT-2XXX Literature Elective..... | 3 |
| Humanities Elective | 3 |
| Electives | 5 |
| Total | 17 |

Fall Year 3:

| | |
|--|-----------|
| *PHAR-6110 Introduction to Pharmacy Practice | 1 |
| *PHAR-6111 Research Design and Methodology | 3 |
| *PHAR-6112 Introduction to Self-Care..... | 3 |
| *PHAR-6121 Pharmacy Practice Lab I | 1 |
| *PHAR-6130 Medicinal Biochemistry | 4 |
| *PHAR-6131 Pharmaceutical Sciences..... | 5 |
| Total | 17 |

Spring Year 3:

| | |
|---|-----------|
| *PHAR-6122 Pharmacy Practice Lab II | 1 |
| *PHAR-6132 Integrated Medicinal Chemistry and Pharmacology..... | 5 |
| *PHAR-6134 Pharmacokinetics and Biopharmaceutics | 4 |
| *PHAR-6137 Immunology, Immunotherapy, & Pharmacogenomics .. | 4 |
| Total | 14 |



*Note: The advanced professional pharmacy courses and descriptions can be found in the graduate catalog.



| | |
|---|-----|
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| Graduate Program Pathway Option for Environmental Science | 193 |
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| Biology Minor | 209 |
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| Pathways to a Graduate Degree | |
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| Minors | |
| Chemistry Minor..... | 209 |
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| Majors | |
| Geology — Bachelor of Science..... | 198 |
| Pathways to a Graduate Degree | |
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| Minors | |
| Earth Science Minor | 209 |
| Geology Minor..... | 209 |

| | |
|--|-----|
| Mathematics | 200 |
| Majors | |
| Mathematics — Bachelor of Arts | 200 |
| Mathematics — Bachelor of Science..... | 201 |
| Pathways to a Graduate Degree | |
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| Pathways to a Graduate Degree | |
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Science and Mathematics

Mission Statement

The Cedarville University School of Science and Mathematics offers curricula in biology, chemistry, physics, mathematics, geological sciences, the earth-space sciences, and secondary science and mathematics education. The school 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.

The School of Science and Mathematics 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.

Programs of Study

Bachelor of Arts (BA) in:

- Biology
- Life Science Education
- Chemistry Education
- Physical Science Education
- Mathematics Education – Integrated
- Science Comprehensive Education – Integrated

Bachelor of Science (BS) in:

- Biology
- Chemistry
- Environmental Science
- Forensic Science
- Mathematics
- Molecular Biology
- Physics
- Geology
- Geology
- Mathematics
- Physics

Minors

- Actuarial Science
- Biology
- Chemistry
- Earth Science

Special Programs

- Environmental Biology
- Preagriculture
- Predental
- Premedical
- Preoptometric
- Prephysician Assistant
- Preveterinary

Personal Requirements

Students who enjoy and excel in high school mathematics and science courses possess the greatest potential for success as graduates of this school. 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.

Cocurricular Opportunities

- Alpha Theta Pi (Biology Club)
- Chi Theta Pi (pre-health professions organization)
- Cedarville University Emergency Medical Services Squad
- QED (Math Club)
- Epsilon Kappa Mu (pre-vet club)
- Chemistry Club (American Chemical Society Student Chapter)

Technical Resources

- ArcGis
- Biology and chemistry support
- CCP4
- Chem Sketch
- DPGraph 2008
- Laboratory simulations
- LabScrib3
- LaTeX
- Matlab 2017
- MicroCalc 7.0 laboratory
- Statistical analysis tools

Career Opportunities

Graduates of this school have gained admission to outstanding graduate and professional schools around the nation. Careers pursued by graduates include:

- Agricultural consultant
- Biologist
- Botanist
- Business actuary
- Chemist
- Chiropractor
- Environmental scientist
- Environmental toxicologist
- Geologist
- Health professional
- Laboratory technician
- Mathematician
- Mathematics Educator
- Pharmacist
- Physical therapist
- Physician
- Physicist
- Researcher
- Science educator
- Statistician
- Wildlife biologist



**Faculty**

Steven Gollmer, Dean; Senior Professor of Physics. *Education:* BS, Pillsbury Baptist Bible College, 1982; BS, Northern Illinois University, 1985; MS, University of Illinois, 1986; PhD, Purdue University, 1994. At Cedarville since 1994.

Nathan Averbeck, Associate Professor of Mathematics.

Education: BS, Cedarville University, 2008; MA, Eastern Illinois University, 2011; PhD, Baylor University, 2016. At Cedarville 2016–2020, 2023.

Melissa Burns, Associate Professor of Biology. *Education:* BA, Cedarville University, 1996; MD, Indiana University School of Medicine, 2000. At Cedarville since 2009.

Reese Clendening, Assistant Professor of Chemistry. *Education:* BS, Cedarville University, 2018. PhD, Purdue University, 2023. At Cedarville since 2023.

Tracy Collins, Associate Professor of Biology. *Education:* BS, The Ohio State University, 2000; MS, University of Dayton, 2005; PhD, University of Dayton, 2010. At Cedarville since 2015.

Terry Dickson, Professor of Biology. *Education:* BS, The Ohio State University, 1973; MD, Medical College of Ohio at Toledo, 1982. At Cedarville since 2020.

Darrin Frey, Senior Professor of Mathematics. *Education:* BS, University of Nebraska, 1989; PhD, University of Michigan, 1995. At Cedarville since 1997.

Mark Gathany, Professor of Biology. *Education:* BS, Grace College, 2002; MSES and Conservation Biology Certificate, Ohio University, 2004; PhD, Colorado State University. At Cedarville since 2007.

Jessica Geyer, Instructor of Biology. *Education:* BS, Cedarville University, 2017; PhD, University of Dayton, 2023. At Cedarville since 2023.

Sarah Gilchrist, Assistant Professor of Mathematics. *Education:* BS, Cedarville University, 2000; MS, Wright State University, 2004; PhD, The Ohio State University, ABD. At Cedarville 2004–2009, 2012.

Nathan Hnatiuk, Professor of Chemistry; Director, Chemistry and Forensic Science Programs. *Education:* BS, Houghton College, 2003; PhD, University of Connecticut, 2010. At Cedarville University since 2008.

Geoffrey Holloway, Associate Professor of Chemistry. *Education:* BS, Ball State University, 1996; PhD, University of Illinois, 2001; Dreyfus Postdoctoral Fellow, 2001–2002, Eastern Illinois University. At Cedarville since 2012.

Aaron Hutchison, Professor of Chemistry. *Education:* BA, Cedarville University, 1998; PhD, University of Kentucky, 2007. At Cedarville University since 2003.

William Jones, Associate Professor of Biology. *Education:* BA, Cedarville University, 1981; MA, University of Akron, 1999; PhD, The Ohio State University. At Cedarville since 1999.

Heather Kuruvilla, Senior Professor of Biology. *Education:* BS, Houghton College, 1992; PhD, State University of New York at Buffalo, 1997. At Cedarville since 1997.

Mark McClain, Professor of Chemistry. *Education:* BA, Cedarville University, 1989; PhD, 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.

Brandi Meacham, Assistant Professor of Mathematics. *Education:* BS, State University of New York at Albany, 1986; MS, State University of New York at Albany, 1989. At Cedarville since 2021.

Michael Mendel, Professor of Zoology. *Education:* BS, Humboldt California State University, 1981; MS, New Mexico State University, 1984; PhD, University of Maine, 1992. At Cedarville since 2016.

Douglas Miller, Professor of Chemistry. *Education:* BS,

University of Rochester, 1977; PhD, 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.

Christina Napier, Assistant Professor of Mathematics. *Education:* BS, California Baptist University, 2012; MS, University of California at Riverside, 2014; PhD, University of Virginia, 2018; postdoctoral Ross Assistant Professor of Mathematics, The Ohio State University, 2018–2020. At Cedarville since 2020.

Joni Ormsbee, Assistant Professor of Mathematics. *Education:* BS, Wright State University, 1987; MAT, Miami University, 1992; MS, Miami University, 1995. At Cedarville since 2010.

Lin Pan, Associate Professor of Physics; Director, Physics Program. *Education:* BSc, Qingdao University, 1991; PhD, Michigan Technological University, 2008. At Cedarville since 2011.

Robert Paris, Associate Professor of Biology. *Education:* BS, Berea College, 1992; MS, University of Tennessee, 1997; PhD, Virginia Polytechnic Institute and State University, 2000. At Cedarville since 2011.

Kaleb Pauley, Professor of Biology; Director, Biological Science Programs. *Education:* BS, Marshall University, 2002; MS, Marshall University, 2004; PhD, University of Florida, 2008; Postdoctoral Research Fellow, University of Florida, 2008–2011. At Cedarville since 2011.

Mohan Pereira, Assistant Professor of Physics. *Education:* BS, University of Colombo, 2007; PhD, University of Rhode Island, 2016; postdoctoral research, Yale School of Medicine, 2016–2018. At Cedarville since 2018.

Megan Rabe, Assistant Professor of Mathematics. *Education:* BS, Cedarville University, 2008; MS, University of Kentucky, 2011; PhD, University of Kentucky, 2014. At Cedarville since 2022.

Thomas Rice, Assistant Professor of Geology. *Education:* BS, West Virginia University, 1978; ME, Colorado School of Mines, 1987. At Cedarville since 2012.

Kevin Roper, Professor of Mathematics. *Education:* BS, Southampton University, England, 1979; MEd, University of South Carolina, 1988; MA, University of Kentucky, 1992; PhD, University of Kentucky, 1995. At Cedarville 1995–97 and since 2000.

Nina Sekerak, Associate Professor of Chemistry. *Education:* BS, Pensacola Christian College, 2009; PhD, University of Illinois, Urbana-Champaign, 2015. At Cedarville since 2015.

Shannon Swicker, Instructor of Biology. *Education:* BS, Cedarville University, 2018; MS, University of Cincinnati, 2023. At Cedarville since 2023.

John Whitmore, Senior Professor of Geology; Director, Geology Program. *Education:* BS, Kent State University, 1985; MS, Institute for Creation Research, 1991; PhD, Loma Linda University, 2003. At Cedarville since 1991.

Otis Wright, Senior Professor of Mathematics; Director Mathematics Programs. *Education:* BSc (Hons.), The University of Sydney, Australia, 1987; MA, Princeton University, 1989; PhD, 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:* BS, Iowa State University, 1960; MS, Iowa State University, 1962; PhD, Iowa State University, 1964. At Cedarville since 1964.

Edwin Braithwaite, Professor Emeritus of Mathematics. *Education:* BA, Western Washington University, 1966; MA, Western Washington University, 1968; PhD, University of Illinois, 1975. At Cedarville since 1976.



Dennis Flentge, Senior Professor of Emeritus of Chemistry. *Education:* BS, Texas Lutheran College, 1969; PhD, 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.

Larry Helmick, Senior Professor Emeritus of Chemistry. *Education:* BS, Cedarville University, 1963; PhD, 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:* BS, Computer Science, United States Air Force Academy, 1970; MS, Operations Research, Air Force Institute of Technology, 1979. At Cedarville since 1993.

John Silvius, Senior Professor Emeritus of Biology. *Education:* BA, Malone College, 1969; graduate study, Western Michigan University, 1970; PhD, West Virginia University, 1974; postdoctoral study, University of Illinois, 1974–76. At Cedarville since 1979.

Technical Support Staff

Eric Johnson, Science Laboratory Technician. *Education:* BA, Cedarville University, 1988. At Cedarville since 2003.





Biology — Bachelor of Arts

The Bachelor of Arts degree with a major in biology provides general course background in the biological sciences.

Course requirements involve 53–58 semester hours including:

| | |
|---|--------------|
| Biology Core Requirements | 23 |
| BIO-1115 Biology I: Cell Biology..... | 4 |
| BIO-1120 Biology II: Zoology | 4 |
| BIO-2500 General Botany | 4 |
| BIO-2600 General Ecology..... | 4 |
| BIO-3300 Genetics | 4 |
| BIO-3800 Biological Research..... | 2 |
| *BIO-4800 Senior Seminar—Biology | 1 |
| Capstone Course | |
| Cognates | 16 |
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| CHEM-3510 Organic Chemistry I | 4 |
| GMTH-1030 Precalculus..... | 4 |
| Track Options — Select one | 14–19 |
| General Track | 14 |
| BIO-3710 Biochemistry..... | 4 |
| BIO(A)/ENVS/MBIO/CHEM/PHYS/MATH/GMTH/ GEOL-2XXX, 3XXX, or 4XXX | 10 |
| Ecology Track..... | 18 |
| BIO-3200 Advanced Ecology..... | 3 |
| or ENVS-3100 Principles of Geographic Information System | 4 |
| BIO-3430 Conservation Biology for Wildlife and Zoos | 3 |
| BIO-3610 Ecophysiology | 3 |
| BIO/ENVS-3XXX, or 4XXX | 9–10 |
| Plant Science Track | 18 |
| BIO-3410 Parasitology and Invertebrate Zoology | 3 |
| BIO-3520 Plant Taxonomy | 3 |
| BIO-3530 Agricultural Science..... | 3 |
| BIO/ENVS-3XXX, or 4XXX | 9 |
| Pre-Physician Assistant Track | 18 |
| BIO-2210 Microbiology | 4 |
| BIO-3450 Human Structure and Function I | 4 |
| BIO-3460 Human Structure and Function II | 4 |
| Two of the following:..... | 6 |
| ALHL-2000 Medical Terminology | 3 |
| (PYCH-2640 Abnormal Psychology | 3 |
| or PYCH-2600 Human Development:Life Span | 3) |
| Zoology Track..... | 19 |
| BIO-3410 Parasitology and Invertebrate Zoology | 3 |
| BIO-3420 Comparative Vertebrate Anatomy and Physiology.... | 4 |
| BIO-3430 Conservation Biology for Wildlife and Zoos | 3 |
| BIO/ENVS-3XXX, or 4XXX | 9 |
| Biology Major (BA) Curriculum Summary | |
| Proficiency Requirements | 0–4 |
| General Education Requirements | 41–49 |
| Biology Core Requirements | 23 |
| Cognates | 16 |
| Track Requirements | 14–19 |
| Electives | 29–34 |
| Total (minimum, not including proficiency) | 128 |

Students preparing for medicine, dentistry, optometry, or any of the **health professions** should refer to page 211 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 26.

Suggested Four-Year Curriculum for a Major in Biology — BA

First Year:

| | |
|--|-----------|
| BIO-1115 Biology I: Cell Biology..... | 4 |
| BIO-1120 Biology II: Zoology | 4 |
| BTGE-1725 The Bible and the Gospel | 3 |
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| GMTH-1030 Precalculus..... | 4 |
| History Elective..... | 3 |
| Total | 32 |

Second Year:

| | |
|--|-----------|
| BIO-2500 General Botany | 4 |
| BIO-2600 General Ecology..... | 4 |
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| CHEM-3510 Organic Chemistry I | 4 |
| GSS-1100 Politics and American Culture..... | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| LIT-2XXX Literature Elective | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Track Requirements | 4 |
| Total | 33 |

Third Year:

| | |
|------------------------------------|-----------|
| BIO-3300 Genetics | 4 |
| BIO-3800 Biological Research | 2 |
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| Track Requirements | 12 |
| Humanities Elective | 3 |
| Electives | 5 |
| Total | 32 |

Fourth Year:

| | |
|--|-----------|
| BIO-4800 Senior Seminar — Biology | 1 |
| Social Science/Global Awareness Elective | 3 |
| Track Requirements | 3 |
| Electives | 24 |
| Total | 31 |



Suggested Three-Year Curriculum for a Major in Biology — BA

Fall Year 1:

| | |
|---|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| BIO-1115 Biology I: Cell Biology..... | 4 |
| CHEM-1110 General Chemistry I (physical science elective) | 4 |
| GMTH-1030 Precalculus..... | 4 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Total | 17 |

Spring Year 1:

| | |
|---|-----------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BIO-1120 Biology II: Zoology | 4 |
| CHEM-1120 General Chemistry II | 4 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| Total | 17 |

Summer Year 1:

| | |
|---|-----------|
| BTGE-2740 New Testament Literature | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| LIT-2XXX Literature Elective | 3 |
| Social Science/Global Awareness Elective..... | 3 |
| Electives | 4 |
| Total | 16 |

Fall Year 2:

| | |
|-------------------------------------|-----------|
| BIO-2500 General Botany | 4 |
| CHEM-3510 Organic Chemistry I | 4 |
| Electives | 4 |
| Total | 12 |

Spring Year 2:

| | |
|------------------------------------|-----------|
| BIO-3800 Biological Research | 2 |
| BTGE-3755 Theology I | 3 |
| BIO-2600 General Ecology..... | 4 |
| Track Requirements | 4 |
| Electives | 4 |
| Total | 17 |

Summer Year 2:

| | |
|--|-----------|
| BTGE-3765 Theology II | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| History Elective | 3 |
| Humanities Elective | 3 |
| Electives | 3 |
| Total | 15 |

Fall Year 3:

| | |
|--------------------------|-----------|
| BIO-3300 Genetics..... | 4 |
| Track Requirements | 9 |
| Electives | 3 |
| Total | 16 |

Spring Year 3:

| | |
|---|-----------|
| BIO-4800 Senior Seminar — Biology | 1 |
| Track Requirements | 6 |
| Electives | 11 |
| Total | 18 |



Graduate Program Pathway Option for Biology — Bachelor of Arts

The Bachelor of Arts in biology program offers accelerated pathways to the Master of Business Administration degree and the Advanced Master of Divinity degree. You may view a sample curriculum plan at cedarville.edu/gradpathways.



Biology — Bachelor of Science

The **Bachelor of Science degree with a major in biology** prepares students for graduate study in the biological sciences by including the course requirements prescribed by many of the leading graduate-level biology degree programs in the nation. This major enhances the student's depth of knowledge in biology and increases the breadth of exposure to chemistry, mathematics, and physics.

Course requirements involve 75 hours including:

| | |
|--|-----------|
| Biology Core Requirements | 27 |
| BIO-1115 Biology I: Cell Biology..... | 4 |
| BIO-1120 Biology II: Zoology | 4 |
| BIO-2500 General Botany | 4 |
| BIO-2600 General Ecology..... | 4 |
| BIO-3300 Genetics..... | 4 |
| BIO-3710 Biochemistry..... | 4 |
| BIO-3800 Biological Research | 2 |
| *BIO-4800 Senior Seminar — Biology..... | 1 |
| *Capstone Course | |
| Cognates | 20 |
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| CHEM-3510 Organic Chemistry I | 4 |
| MATH-1700 Calculus and Dynamical Systems for the Life Sciences | 4 |
| (or MATH-1710 Calculus I | 5) |
| PHYS-1010 College Physics I | 4 |
| Track Options — Select one | 28 |

General Track

| | |
|--|----|
| BIO/ENVS/MBIO-2XXX, 3XXX, or 4XXX | 10 |
| BIO(A)/ENVS/MBIO/CHEM/PHYS/MATH/GMTH/ GEOL-2XXX, 3XXX, or 4XXX | 10 |
| CHEM-3520 Organic Chemistry II | 4 |
| PHYS-1020 College Physics II..... | 4 |

Ecology Track

| | |
|--|------|
| BIO-3200 Advanced Ecology..... | 3 |
| or ENVS-3100 Geographic Information System..... | 4 |
| BIO-3430 Conservation Biology for Wildlife and Zoos | 3 |
| BIO-3610 Ecophysiology | 3 |
| BIO/ENVS-3XXX, or 4XXX..... | 9 |
| BIO(A)/ENVS/MBIO/CHEM/PHYS/MATH/GMTH/ GEOL-2XXX, 3XXX, or 4XXX | 9–10 |

Plant Science Track

| | |
|--|----|
| BIO-3410 Parasitology and Invertebrate Zoology | 3 |
| BIO-3520 Plant Taxonomy | 3 |
| BIO-3530 Agricultural Science..... | 3 |
| BIO/ENVS-3XXX, or 4XXX..... | 9 |
| BIO(A)/ENVS/MBIO/CHEM/PHYS/MATH/GMTH/ GEOL-2XXX, 3XXX, or 4XXX | 10 |

Pre-Medical Sciences (Med/Dent/Optom) Track

| | |
|--|----|
| BIO-2210 Microbiology | 4 |
| (or BIO-4350 Immunology..... | 4) |
| BIO-3450 Human Structure and Function I | 4 |
| BIO-3460 Human Structure and Function II | 4 |
| CHEM-3520 Organic Chemistry II | 4 |
| PHYS-1020 College Physics II..... | 4 |
| BIO(A)/ENVS/MBIO/CHEM/PHYS/MATH/GMTH/ GEOL-2XXX, 3XXX, or 4XXX | 8 |

Pre-Physician Assistant Track

| | |
|--|----|
| ALHL-2000 Medical Terminology | 3 |
| BIO-2210 Microbiology | 4 |
| BIO-3450 Human Structure and Function I | 4 |
| BIO-3460 Human Structure and Function II | 4 |
| CHEM-3520 Organic Chemistry II | 4 |
| PYCH-2600 Human Development: Lifespan | 3 |
| (or PYCH-2640 Abnormal Psychology | 3) |
| BIO(A)/ENVS/MBIO/CHEM/PHYS/MATH/GMTH/ GEOL-2XXX, 3XXX, or 4XXX | 6 |

Pre-Veterinary Sciences Track

| | |
|--|---|
| BIO-3410 Parasitology and Invertebrate Zoology | 3 |
| BIO-3420 Comparative Vertebrate Anatomy and Physiology.... | 4 |
| BIO-3610 Ecophysiology | 3 |
| BIO-3530 Agricultural Science..... | 3 |
| BIO(A)/ENVS/MBIO/CHEM/PHYS/MATH/GMTH/ GEOL-2XXX, 3XXX, or 4XXX | 7 |
| CHEM-3520 Organic Chemistry II | 4 |
| PHYS-1020 College Physics II..... | 4 |

Zoology Track

| | |
|--|---|
| BIO-3410 Parasitology and Invertebrate Zoology | 3 |
| BIO-3420 Comparative Vertebrate Anatomy and Physiology.... | 4 |
| BIO-3430 Conservation Biology for Wildlife and Zoos | 3 |
| BIO/ENVS-3XXX, or 4XXX..... | 9 |
| BIO(A)/ENVS/MBIO/CHEM/PHYS/MATH/GMTH/ GEOL-2XXX, 3XXX, or 4XXX | 9 |

Biology Major (BS) Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0–4 |
| Other General Education Requirements..... | 41 |
| Biology Core Requirements | 27 |
| Cognates | 20 |
| Track Requirements | 28 |
| Electives | 12 |
| Total (minimum, not including proficiency) | 128 |

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

Students preparing for medicine, dentistry, optometry, or any of the **health professions** should refer to page 211 for a list of courses generally recommended for admission to professional colleges.



A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Biology — BS

First Year:

| | |
|--|-----------|
| BIO-1115 Biology I: Cell Biology..... | 4 |
| BIO-1120 Biology II: Zoology | 4 |
| BTGE-1725 The Bible and the Gospel | 3 |
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Total | 33 |

Second Year:

| | |
|--|-----------|
| BIO-2500 General Botany | 4 |
| BIO-2600 General Ecology..... | 4 |
| CHEM-3510 Organic Chemistry I | 4 |
| MATH-1700 Calculus and Dynamical Systems for the Life Sciences 4 (or MATH-1710 Calculus I)..... | 5 |
| History Elective..... | 3 |
| Track Requirements..... | 8 |
| Electives | 3 |
| Total | 30 |

Third Year:

| | |
|---|-----------|
| BIO-3300 Genetics | 4 |
| BIO-3710 Biochemistry..... | 4 |
| BIO-3800 Biological Research | 2 |
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| PHYS-1010 College Physics I | 4 |
| Track Requirements | 10 |
| Social Science/Global Awareness Elective..... | 3 |
| Total | 33 |

Fourth Year:

| | |
|--|-----------|
| BIO-4800 Senior Seminar — Biology..... | 1 |
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| Track Requirements | 10 |
| Humanities Elective | 3 |
| LIT-2XXX Literature Elective | 3 |
| Electives | 9 |
| Total | 32 |

Graduate Program Pathway Option for Biology — Bachelor of Science

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





Environmental Science

The Bachelor of Science degree with a major in environmental science prepares students with a foundation for entering vocations in ecology, conservation biology, environmental education, environmental consulting companies, etc., and graduate study which is often needed for these careers.

Course requirements involve 78–79 semester hours including:

Environmental Science Core Requirements 37

| | |
|--|---|
| BIO-1115 Biology I: Cell Biology..... | 4 |
| BIO-1120 Biology II: Zoology | 4 |
| BIO-2500 General Botany | 4 |
| BIO-2600 General Ecology..... | 4 |
| BIO-3800 Biological Research..... | 2 |
| *BIO-4800 Biology Senior Seminar | 1 |
| ENVS-1110 Environment: Science, Sustainability, and Stewardship | 4 |
| ENVS-3100 Geographic Information Systems..... | 4 |
| ENVS-3200 Advanced Ecology | 3 |
| ENVS-3600 Environmental Ethics | 3 |
| GEOL-1110 Introduction to Physical Geology | 4 |

*Capstone Course

Required Cognates 22

| | |
|---|----|
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| CHEM-3510 Organic Chemistry I | 4 |
| GMTH-2110 Introduction to Biostatistics | 3 |
| MATH-1700 Calculus and Dynamical Systems for the Life Sciences | 4 |
| (or MATH-1710 Calculus I | 5) |
| POLS-3690 Public Policy | 3 |

Track Options-Select One of the Following 19–20

Animal and Wildlife Biology 20

| | |
|---|---|
| BIO-3410 Parasitology and Invertebrate Zoology | 3 |
| BIO-3420 Comparative Vertebrate Anatomy and Physiology | 4 |
| BIO-3520 Plant Taxonomy | 3 |
| BIO-3610 Ecophysiology..... | 3 |
| BIO-4880 Topics in Biology | 3 |
| BIOA-3210 Animal Ecology | 4 |
| or BIOA-3450 Wildlife Ecology..... | 4 |

Geology 19

| | |
|--|---|
| BIOA-3010 Land Resources..... | 4 |
| GEOL-3100 Geomorphology..... | 4 |
| GEOL-3800 Philosophy of Science and Research Methods in Geology | 3 |
| GEOL-4100 Environmental Geology | 4 |
| GEOL-XXXX Geology Elective..... | 4 |

Molecular Ecology 20

| | |
|---|---|
| BIO-3300 Genetics | 4 |
| BIO-3710 Biochemistry | 4 |
| BIO-3XXX/4XXX Elective or BIOA-3XXX/4XXX AuSable Institute course..... | 8 |
| CHEM-3520 Organic Chemistry II | 4 |

Plant and Agricultural Science 19

| | |
|--|---|
| BIO-3410 Parasitology and Invertebrate Zoology | 3 |
| BIO-3510 Plant Physiology | 3 |
| BIO-3520 Plant Taxonomy | 3 |
| BIO-3610 Ecophysiology..... | 3 |
| BIOA-3030 Ecological Agriculture | 4 |
| BIO-4880 Topics in Biology | 3 |

Independent Track 19

Students may elect to pursue another emphasis or minor related to the major field of study and approved by the academic advisor. Examples would include GIS/Geospatial, Earth Science, and Community Development, among others.

Environmental Science Major (BS) Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0–4 |
| General Education Requirements..... | 38 |
| Environmental Science Major Requirements..... | 56–57 |
| Cognate Requirements..... | 22 |
| General Electives | 11–12 |
| Total (minimum, not including proficiency) | 128 |

A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Environmental Science — BS

First Year:

| | |
|--|-----------|
| BIO-1115 Biology I: Cell Biology..... | 4 |
| BIO-1120 Biology II: Zoology | 4 |
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| ENVS-1110 Environment: Science, Sustainability and Stewardship | 4 |
| GEOL-1110 Introduction to Physical Geology | 4 |
| GSS-1100 Politics and American Culture..... | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Total | 33 |

Second Year:

| | |
|---|-----------|
| BIO-2500 General Botany | 4 |
| BIO-2600 General Ecology..... | 4 |
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| GMTH-2110 Introduction to Biostatistics | 3 |
| MATH-1700 Calculus and Dynamical Systems for the Life Sciences 4 (or MATH-1710 Calculus I..... | 5) |
| Humanities Elective | 3 |
| Total | 32 |

Third Year:

| | |
|---|-----------|
| BIO-3800 Biological Research | 2 |
| BTGE-3755 Theology I..... | 3 |
| CHEM-3510 Organic Chemistry I | 4 |
| ENVS-3100 Geographic Information Systems..... | 4 |
| ENVS-3200 Advanced Ecology | 3 |
| ENVS-3600 Environmental Ethics | 3 |
| LIT-2XXX Literature Elective | 3 |
| Track requirements | 8 |
| Electives | 3 |
| Total | 33 |

Fourth Year:

| | |
|---|-----------|
| BTGE-3765 Theology II | 3 |
| BIO-4800 Biology Senior Seminar..... | 1 |
| POLS-3690 Public Policy..... | 3 |
| History/Global Awareness Elective | 3 |
| Track requirements | 11–12 |
| Electives | 8–9 |
| Total | 30 |

Graduate Program Pathway Option for Environmental Science

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

Molecular Biology

The Bachelor of Science degree with a major in molecular biology prepares students for graduate-level training in the context of a broad biological background based in a biblical worldview. This degree allows students to become holistically-thinking molecular biologists and will enhance their depth of knowledge in this competitive and growing field.

Course requirements involve 77 semester hours including:

| | |
|--|------------|
| Biology Requirements..... | 33 |
| BIO-1115 Biology I: Cell Biology..... | 4 |
| BIO-1120 Biology II: Zoology | 4 |
| BIO-2210 Microbiology | 4 |
| BIO-3300 Genetics | 4 |
| BIO-3710 Biochemistry..... | 4 |
| BIO-3800 Biological Research (must be taken twice) | 2 (4) |
| *BIO-4800 Senior Seminar — Biology..... | 1 |
| MBIO-3210 Advanced Cell Biology | 4 |
| MBIO-4300 Molecular Biology | 4 |
| Biology electives selected from the following | 16 |
| Any 3000- or 4000-level BIO or MBIO electives..... | 9 |
| Molecular Biology electives selected from | 7–8 |
| BIO-4350 Immunology | 4 |
| MBIO-4220 Signal Transduction..... | 4 |
| MBIO-4250 Biology of Cancer..... | 4 |
| MBIO-4310 Eukaryotic Gene Regulation | 3 |
| MBIO-4370 Virology | 3 |
| Required Cognates..... | 28 |
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| CHEM-3510, 3520 Organic Chemistry I and II | 8 |
| MATH-1700 Calculus and Dynamical Systems for the Life Sciences | 4 |
| (or MATH-1710 Calculus I | 5) |
| PHYS-1010, 1020 College Physics I and II | 8 |
| *Capstone Course | |
| Molecular Biology Major (BS) Curriculum Summary | |
| Proficiency Requirements | 0–4 |
| General Education Requirements..... | 41 |
| Molecular Biology Major Requirements | 77 |
| General Electives | 10 |
| Total (minimum, not including proficiency) | 128 |

Students preparing for medicine, dentistry, optometry, or any of the **health professions** should refer to page 211 for a list of courses generally recommended for admission to professional colleges.

A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Molecular Biology — BS

First Year:

| | |
|---|-----------|
| BIO-1115 Biology I: Cell Biology..... | 4 |
| BIO-1120 Biology II: Zoology | 4 |
| BTGE-1725 The Bible and the Gospel | 3 |
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| MATH-1700 Calculus and Dynamical Systems for the Life Sciences (or MATH-1710 Calculus I)..... | 5) |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Totals | 34 |

Second Year:

| | |
|--|-----------|
| BIO-2210 Microbiology | 4 |
| BIO-3300 Genetics | 4 |
| CHEM-3510, 3520 Organic Chemistry I and II | 8 |
| GSS-1100 Politics and American Culture..... | 3 |
| MBIO-3210 Advanced Cell Biology..... | 4 |
| History Elective..... | 3 |
| LIT-2XXX Literature Elective..... | 3 |
| Total | 29 |

Third Year:

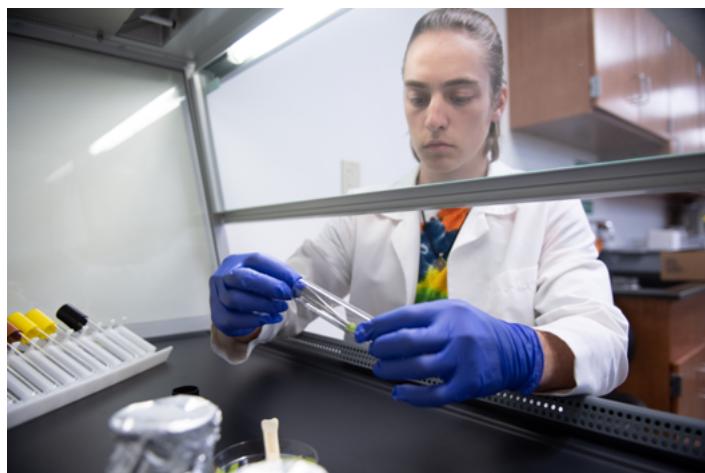
| | |
|--|-----------|
| BIO-3710 Biochemistry..... | 4 |
| BIO-3800 Biological Research (must be taken twice) | 2(4) |
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| PHYS-1010, 1020 College Physics I and II | 8 |
| BIO/MBIO Electives | 9 |
| Total | 31 |

Fourth Year:

| | |
|--|-----------|
| BIO-4800 Senior Seminar — Biology..... | 1 |
| BTGE-3755 Theology I..... | 3 |
| BTGE-3765 Theology II | 3 |
| MBIO-4300 Molecular Biology | 4 |
| Humanities Elective | 3 |
| Social Science/Global Awareness Elective | 3 |
| Molecular Biology Electives | 7 |
| Electives | 10 |
| Total | 34 |

Graduate Program Pathway Option for Molecular Biology

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





Chemistry — Bachelor of Arts

The Bachelor of Arts degree with a major in chemistry prepares students for careers in the health professions, technical business professions, and other science-related vocations.

Course requirements involve 52 semester hours including:

| | |
|---|---------------|
| Chemistry Core Requirements..... | 34 |
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| CHEM-2210 Analytical Chemistry I..... | 3 |
| CHEM-2800 Introduction to Research in Chemistry..... | 1 |
| CHEM-3510, 3520 Organic Chemistry I and II | 8 |
| CHEM-4310 Thermodynamics and Kinetics..... | 4 |
| (or CHEM-4320 Quantum Mechanics and Spectroscopy 4) | |
| *CHEM-4800 Senior Seminar — Chemistry..... | 1 |
| CHEM 4830 Research in Chemistry..... | 2 |
| CHEM-2XXX, 3XXX, or 4XXX..... | 7 |
| Required Cognates..... | 18 |
| MATH-1710, 1720 Calculus I and II | 10 |
| PHYS-2110, 2120 General Physics I and II..... | 8 |
| *Capstone Course | |
| Chemistry Major (BA) Curriculum Summary | |
| Proficiency Requirements | 0–4 |
| 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 |

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

Students preparing for medicine, dentistry, optometry, or any of the health professions should refer to page 211 for a list of courses generally recommended for admission to professional colleges.



A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Chemistry — BA

First Year:

| | |
|--|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| MATH-1710, 1720 Calculus I and II | 10 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| LIT-2XXX Literature Elective | 3 |
| Total | 32 |

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 | 6 |
| Total | 30 |

Third Year:

| | |
|--|-------------|
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| CHEM-3510, 3520 Organic Chemistry I and II | 8 |
| CHEM-2XXX, 3XXX, or 4XXX | 7 |
| Biology Elective | 3.5 |
| Humanities Elective | 3 |
| Social Science/Global Awareness Elective | 3 |
| Electives | 3 |
| Total | 33.5 |

Fourth Year:

| | |
|--|-------------|
| CHEM-4310 Thermodynamics and Kinetics | 4 |
| (or CHEM-4320 Quantum Mechanics and Spectroscopy | 4) |
| CHEM-4800 Senior Seminar — Chemistry | 1 |
| CHEM-4830 Research in Chemistry | 2 |
| History Elective | 3 |
| Electives | 22.5 |
| Total | 32.5 |

Graduate Program Pathway Option for Chemistry — Bachelor of Arts

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

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 66 semester hours including:

| Chemistry Core Requirements | 48 |
|---|------------|
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| CHEM-2210, 2220 Analytical Chemistry I and II | 6 |
| CHEM-2800 Introduction to Research in Chemistry | 1 |
| CHEM-3410 Inorganic Chemistry | 3 |
| CHEM-3510, 3520 Organic Chemistry I and II | 8 |
| CHEM-4310 Thermodynamics and Kinetics | 4 |
| CHEM-4320 Quantum Mechanics and Spectroscopy | 4 |
| *CHEM-4800 Senior Seminar — Chemistry | 1 |
| CHEM-4830 Research in Chemistry | 3 |
| CHEM-2XXX, 3XXX, or 4XXX | 10 |
| Required Cognates | 18 |
| MATH-1710, 1720 Calculus I and II | 10 |
| PHYS-2110, 2120 General Physics I and II | 8 |
| *Capstone Course | |
| Chemistry Major (BS) Curriculum Summary | |
| Proficiency Requirements | 0-4 |
| Other General Education Requirements | 44.5 |
| Chemistry Major Requirements | 48 |
| Cognates | 18 |
| Electives | 17.5 |
| Total (minimum, not including proficiencies) | 128 |



A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Chemistry — BS

First Year:

| | |
|---|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| COM-1100 Fundamentals of Speech | 3 |
| ENG-1400 Composition | 3 |
| MATH-1710, 1720 Calculus I and II | 10 |
| PEF-1990 Physical Activity and Healthy Living | 2 |
| History Elective | 3 |
| Total | 32 |

Second Year:

| | |
|---|-------------|
| BTGE-2730 Old Testament Literature | 3 |
| BTGE-2740 New Testament Literature | 3 |
| CHEM-2210, 2220 Analytical Chemistry I and II | 6 |
| CHEM-2800 Introduction to Research in Chemistry | 1 |
| CHEM-3510, 3520 Organic Chemistry I and II | 8 |
| PHYS-2110, 2120 General Physics I and II | 8 |
| Biology Elective | 3.5 |
| Total | 32.5 |

Third Year:

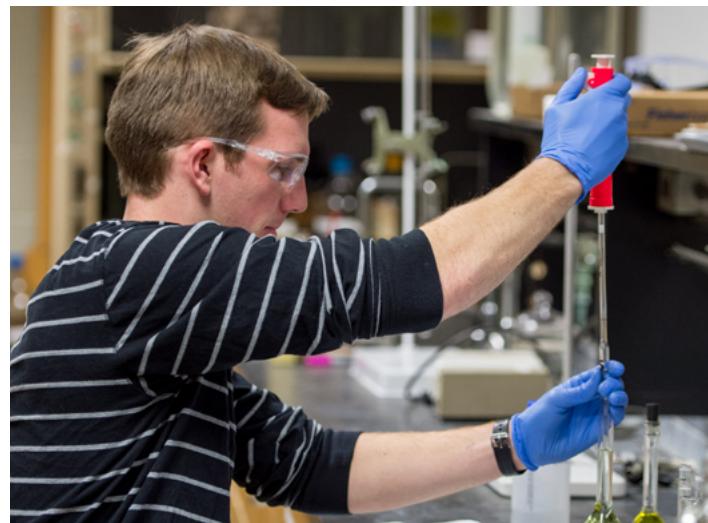
| | |
|--|-----------|
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| CHEM-4310 Thermodynamics and Kinetics | 4 |
| CHEM-4320 Quantum Mechanics and Spectroscopy | 4 |
| GSS-1100 Politics and American Culture | 3 |
| HUM-1400 Introduction to the Humanities | 3 |
| LIT-2XXX Literature Elective | 3 |
| Social Science/Global Awareness Elective | 3 |
| Electives | 4 |
| Total | 30 |

Fourth Year:

| | |
|--------------------------------------|-------------|
| CHEM-3410 Inorganic Chemistry | 3 |
| CHEM-4800 Senior Seminar — Chemistry | 1 |
| CHEM-4830 Research in Chemistry | 3 |
| CHEM-2XXX, 3XXX, or 4XXX | 10 |
| Humanities Elective | 3 |
| Electives | 13.5 |
| Total | 33.5 |

Graduate Program Pathway Option for Chemistry — Bachelor of Science

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





Forensic Science

The **Bachelor of Science degree with a major in forensic science** is an interdisciplinary degree that includes substantial laboratory work and an emphasis on advanced coursework in the sciences. It will involve a collaborative endeavor between Cedarville University and the Ohio Bureau of Criminal Identification and Investigation consisting of a forensic laboratory experience on an internship basis with the bureau.

Course requirements involve 89 semester hours including:

| Science and Math Core Requirements | 63 |
|---|-----------|
| BIO-1115 Biology I: Cell Biology..... | 4 |
| BIO-3300 Genetics..... | 4 |
| BIO-3710 Biochemistry..... | 4 |
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| CHEM-2210, 2220 Analytical Chemistry I and II..... | 6 |
| CHEM-3510, 3520 Organic Chemistry I and II | 8 |
| FORS-1500 Introduction to Forensic Science | 3 |
| FORS-3400 Advanced Forensic Chemistry..... | 4 |
| *FORS-4800 Forensic Science Capstone | 1 |
| GSS-3650 Quantitative Methodology | 3 |
| or GMTH-2110 Intro to Biostatistics..... | 3 |
| MATH-1710, 1720 Calculus I and II | 10 |
| PHYS-2110, 2120 General Physics I and II..... | 8 |
| Criminal Justice Requirements | 18 |
| CRJU-1310 Introduction to Criminal Justice | 3 |
| CRJU-3350 Criminal Law | 3 |
| CRJU-3390 Criminal Evidence..... | 3 |
| CRJU-3400 Criminal Procedure | 3 |
| CRJU-4320 Criminal Investigation..... | 3 |
| FORS-4900 Forensic Science Project | 3 |
| or FORS-4910 Forensic Science Internship..... | 3 |
| or GSS-4990 History and Government Internship | 3 |
| Required Science electives selected from | 8 |
| BIO-3450 Human Structure and Function I..... | 4 |
| BIO-3460 Human Structure and Function II..... | 4 |
| CHEM-4310 Thermodynamics and Kinetics | 4 |
| CHEM-4320 Quantum Mechanics and Spectroscopy..... | 4 |
| MBIO-3210 Advanced Cell Biology | 4 |
| MBIO-4300 Molecular Biology | 4 |

*Capstone Course

Forensic Science Major (BS) Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0-4 |
| General Education Requirements..... | 38 |
| Forensic Science Major Requirements | 89 |
| General Elective | 1 |
| Total (minimum, not including proficiency) | 128 |



A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Forensic Science — BS

First Year:

| | |
|--|-----------|
| BIO-1115 Biology I: Cell Biology..... | 4 |
| BTGE-1725 The Bible and the Gospel | 3 |
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| CRJU-1310 Introduction to Criminal Justice | 3 |
| ENG-1400 Composition..... | 3 |
| FORS-1500 Introduction to Forensic Science | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| History Elective..... | 3 |
| Total | 29 |

Second Year:

| | |
|---|-----------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| CHEM-2210, 2220 Analytical Chemistry I and II | 6 |
| COM-1100 Fundamentals of Speech..... | 3 |
| CRJU-3390 Criminal Evidence..... | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| MATH-1710, 1720 Calculus I and II | 10 |
| LIT-2XXX Literature Elective..... | 3 |
| Total | 34 |

Third Year:

| | |
|--|-----------|
| BIO-3300 Genetics | 4 |
| BTGE-3755 Theology I..... | 3 |
| BTGE-3765 Theology II | 3 |
| CHEM-3510, 3520 Organic Chemistry I and II | 8 |
| CRJU-3350 Criminal Law | 3 |
| CRJU-4320 Criminal Investigation..... | 3 |
| FORS-3400 Advanced Forensic Chemistry..... | 4 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| Humanities Elective | 3 |
| Total | 34 |

Fourth Year:

| | |
|--|-----------|
| BIO-3710 Biochemistry..... | 4 |
| CRJU-3400 Criminal Procedure | 3 |
| FORS-4800 Forensic Science Capstone | 1 |
| GSS-3650 Quantitative Methodology | 3 |
| (or GMTH-2110 Introduction to Biostatistics | 3) |
| FORS-4900 Forensic Science Project | 3 |
| (or FORS-4910 Forensic Science Internship | 3) |
| (or GSS-4990 History and Government Internship | 3) |
| PHYS-2110, 2120 General Physics I and II..... | 8 |
| Science Electives | 8 |
| General Elective | 1 |
| Total | 31 |

Graduate Program Pathway Option for Forensic Science

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



Geology — Bachelor of Science

The **Bachelor of Science degree with a major in geology** prepares students for graduate studies or employment in a wide variety of geological fields. Skills needed by modern geologists, such as observation, interpretation, model analysis, critical thinking, and field work are emphasized throughout the program. Opportunities for undergraduate research and publication are also available and encouraged.

Course requirements involve 88–89 hours including:

| | |
|--|---------------|
| Geology Core Requirements | 38 |
| ENVS-3100 Geographic Information Systems..... | 4 |
| GEOL-1110 Introduction to Physical Geology | 4 |
| GEOL-1120 Historical Geology | 4 |
| GEOL-2100 Mineralogy | 4 |
| GEOL-3100 Geomorphology | 4 |
| GEOL-3600 Readings in Geology (one-hour taken twice) | 2 |
| GEOL-3800 Philosophy of Science/Research Methods in Geology | 3 |
| GEOL-4100 Environmental Geology | 4 |
| GEOL-4700 Professional Geologist Exam Prep..... | 1 |
| *GEOL-4800 Senior Project (one-hour taken twice) | 2 |
| POLS-3690 Public Policy | 3 |
| GEOL-3XXX/4XXX Geology electives | 3 |
| Geosciences Emphasis Requirements..... | 32 |
| BIO-1120 Biology II: Zoology | 4 |
| BIO-2500 General Botany | 4 |
| BIO-2600 General Ecology..... | 4 |
| ENVS-1110 Environment: Science, Sustainability, and Stewardship | 4 |
| ENVS-3200 Advanced Ecology | 3 |
| ENVS-3600 Environmental Ethics..... | 3 |
| GEOL-3200 Invertebrate Paleontology | 4 |
| or GEOL-3300 Petrology | 4 |
| GEOL-3XXX/4XXX Geology electives | 3 |
| MGMT-3500 Principles of Organization and Management | 3 |
| Geosciences Cognates | 19 |
| BIO-1115 Biology I: Cell Biology..... | 4 |
| CHEM-1110 General Chemistry I..... | 4 |
| CHEM-1120 General Chemistry II | 4 |
| GMTH-2110 Introduction to Biostatistics..... | 3 |
| MATH-1700 Calculus and Dynamical Systems for the Life Sciences..... | 4 |
| Physical Geology Emphasis Requirements | 23 |
| GEOL-3200 Invertebrate Paleontology | 4 |
| GEOL-3300 Petrology..... | 4 |
| GEOL-3400 Structural Geology..... | 4 |
| GEOL-4200 Stratigraphy and Sedimentology..... | 5 |
| GEOL-4400 Summer Field Camp | 6 |
| Physical Geology Cognates | 27 |
| BIO-1115 Biology I: Cell Biology..... | 4 |
| CHEM-1110 General Chemistry I..... | 4 |
| CHEM-1120 General Chemistry II | 4 |
| GMTH-2110 Introduction to Biostatistics | 3 |
| MATH-1700 Calculus and Dynamical Systems for the Life Sciences..... | 4 |
| PHYS-1010 College Physics I | 4 |
| PHYS-1020 College Physics II | 4 |

*Capstone Course

Geology Major (BS) Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0–4 |
| General Education Requirements..... | 38 |
| Geology Major Requirements | 61–70 |
| Cognate(s) | 19–27 |
| General Electives | 1–2 |
| Total (minimum, not including proficiency) | 128 |

A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Geology (Geosciences Emphasis) — BS

First Year:

| | |
|--|-----------|
| BIO-1115 Biology I: Cell Biology..... | 4 |
| BIO-1120 Biology II: Zoology | 4 |
| BTGE-1725 The Bible and the Gospel | 3 |
| BTGE-2730 Old Testament Literature..... | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| ENVS-1110 Environment: Science, Sustainability, and Stewardship | 4 |
| GEOL-1110 Introduction to Physical Geology | 4 |
| GEOL-1120 Historical Geology | 4 |
| Total | 32 |

Second Year:

| | |
|--|-----------|
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| ENVS-3100 Geographic Information Systems..... | 4 |
| GEOL-2100 Mineralogy | 4 |
| GMTH-2110 Introduction to Biostatistics..... | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| MATH-1700 Calculus and Dynamical Systems for the Life Sciences | 4 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Total | 31 |

Third Year:

| | |
|--|-----------|
| BIO-2500 General Botany | 4 |
| BIO-2600 General Ecology..... | 4 |
| BTGE-2740 New Testament Literature | 3 |
| ENVS-3600 Environmental Ethics..... | 3 |
| GEOL-3100 Geomorphology | 4 |
| GEOL-3200 Invertebrate Paleontology | 4 |
| (or GEOL-3300 Petrology | 4) |
| GEOL-3600 Readings in Geology (one-credit hour taken twice)..... | 2 |
| GEOL-3800 Philosophy of Science/Research Methods in Geology .. | 3 |
| LIT-2XXX Literature Elective | 3 |
| POLS-3690 Public Policy | 3 |
| Total | 33 |

Fourth Year:

| | |
|---|-----------|
| BTGE-3755 Theology I..... | 3 |
| BTGE-3765 Theology II | 3 |
| ENVS-3200 Advanced Ecology | 3 |
| GEOL-4100 Environmental Geology | 4 |
| GEOL-4700 Professional Geologist Exam Prep | 1 |
| GEOL-4800 Senior Project (one-credit hour taken twice)..... | 2 |
| MGMT-3500 Principles of Organization and Management | 3 |
| Geology Electives | 6 |
| History/Global Awareness Elective | 3 |
| Humanities Elective | 3 |
| General Electives | 1 |
| Total | 32 |



A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Geology (Physical Geology Emphasis) — BS

First Year:

| | |
|--|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| BTGE-2730 Old Testament Literature..... | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition..... | 3 |
| GEOL-1110 Introduction to Physical Geology | 4 |
| GEOL-1120 Historical Geology | 4 |
| GSS-1100 Politics and American Culture..... | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| MATH-1700 Calculus and Dynamical Systems for the Life Sciences | 4 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Total | 32 |

Second Year:

| | |
|--|-----------|
| BIO-1115 Biology I: Cell Biology..... | 4 |
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| ENVS-3100 Geographic Information Systems..... | 4 |
| GEOL-2100 Mineralogy | 4 |
| GEOL-3300 Petrology..... | 4 |
| GMTH-2110 Introduction to Biostatistics..... | 3 |
| PHYS-1010, 1020 College Physics I and II | 8 |
| Total | 35 |

Third Year:

| | |
|--|-----------|
| BTGE-2740 New Testament Literature | 3 |
| GEOL-3100 Geomorphology | 4 |
| GEOL-3200 Invertebrate Paleontology | 4 |
| GEOL-3400 Structural Geology..... | 4 |
| GEOL-3600 Readings in Geology (one-credit hour taken twice)..... | 2 |
| GEOL-3800 Philosophy of Science/Research Methods in Geology .. | 3 |
| GEOL-4200 Stratigraphy and Sedimentology..... | 5 |
| LIT-2XXX Literature Elective | 3 |
| Total | 28 |

Summer:

| | |
|-----------------------------------|---|
| GEOL-4400 Summer Field Camp | 6 |
|-----------------------------------|---|

Fourth Year:

| | |
|---|-----------|
| BTGE-3755 Theology I..... | 3 |
| BTGE-3765 Theology II | 3 |
| GEOL-4100 Environmental Geology..... | 4 |
| GEOL-4700 Professional Geologist Exam Prep | 1 |
| GEOL-4800 Senior Project (one-credit hour taken twice)..... | 2 |
| POLS-3690 Public Policy | 3 |
| Geology Core Electives | 3 |
| History/Global Awareness Elective | 3 |
| Humanities Elective | 3 |
| General Electives | 2 |
| Total | 27 |



Graduate Program Pathway Option for Geology — Bachelor of Science

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

Mathematics — Bachelor of Arts

The **Bachelor of Arts degree with a major in mathematics** provides coursework and training in advanced mathematics. Because of the general nature of this curriculum and opportunity to complement the major with electives from other fields of study, this curriculum provides excellent preparation for graduate study in areas that require good quantitative and/or analytical skills such as philosophy, business, and theology. This liberal arts major also prepares students for a wide variety of career opportunities that require a general Bachelor of Arts degree. The flexibility of this major enables students to select their mathematics and other electives to meet educational or career goals.

Students should include courses in astronomy, chemistry, and physics as general electives.

Course requirements involve 54 semester hours including:

| | |
|--|------------|
| Mathematics Core Requirements | 42 |
| CS-1210 C++ Programming..... | 2 |
| MATH-1710, 1720, 2710 Calculus I, II, and III | 13 |
| MATH-1990 Beautiful Math Structures and Thinking | 3 |
| MATH-2210 Logic and Methods of Proof | 3 |
| MATH-2740 Differential Equations | 3 |
| MATH-2800 LaTeX for Technical Documents | 1 |
| MATH-3610 Linear Algebra..... | 3 |
| MATH-3800 Research Methods in Mathematics | 1 |
| *MATH-4800 Capstone Experience in Mathematics..... | 3 |
| PHYS-2110, 2120, 2130 General Physics I, II, and III..... | 10 |
| Electives (meeting the following criteria) | 12 |
| Applied courses (at least three hours from the following applied courses) | 3–9 |
| MATH-3110 Probability and Statistics..... | 3 |
| MATH-3120 Theory of Probability | 3 |
| MATH-3240 Introduction to Operations Research..... | 3 |
| MATH-3550 Discrete Mathematics: Graph Theory..... | 3 |
| MATH-3750 Introduction to Dynamical Systems | 3 |
| MATH-3760 Numerical Analysis..... | 3 |
| MATH-4130 Mathematical Statistics | 3 |
| MATH-4210 Mathematical Methods for Physicists | 3 |
| MATH-4880 Topics in Mathematics | 1–3 |
| MATH-4900 Independent Study in Mathematics..... | 1–3 |
| Theoretical courses (at least three hours from the following) | 3–9 |
| MATH-3500 Number Theory | 3 |
| MATH-3550 Discrete Mathematics: Graph Theory..... | 3 |
| MATH-3560 Discrete Mathematics: Combinatorics | 3 |
| MATH-3710 Advanced Calculus..... | 3 |
| MATH-3740 Complex Variables..... | 3 |
| MATH-4130 Mathematical Statistics | 3 |
| MATH-4410 Euclidean and Non-Euclidean Geometry | 3 |
| MATH-4450 Topology | 3 |
| MATH-4610, 4620 Abstract Algebra I and II | 6 |
| MATH-4710, 4720 Real Variables I and II | 6 |
| MATH-4880 Topics in Mathematics | 1–3 |
| MATH-4900 Independent Study in Mathematics..... | 1–3 |

*Capstone Course

Mathematics Major (BA) Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0–4 |
| Other General Education Requirements..... | 44.5–52.5 |
| Mathematics Major Requirements | 54 |
| Electives | 21.5–29.5 |
| Total (minimum, not including proficiency) | 128 |

A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Mathematics — BA

First Year:

| | |
|---|-----------|
| BTGE-1725 The Bible and the Gospel | 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 Healthy Living..... | 2 |
| Total | 30 |

Second Year:

| | |
|---|-----------|
| 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-2740 Differential Equations | 3 |
| MATH-3800 Research Methods in Mathematics | 1 |
| PHYS-2110, 2120 General Physics I and II | 8 |
| LIT-2XXX Literature Elective | 3 |
| Electives | 3 |
| Total | 33 |

Third Year:

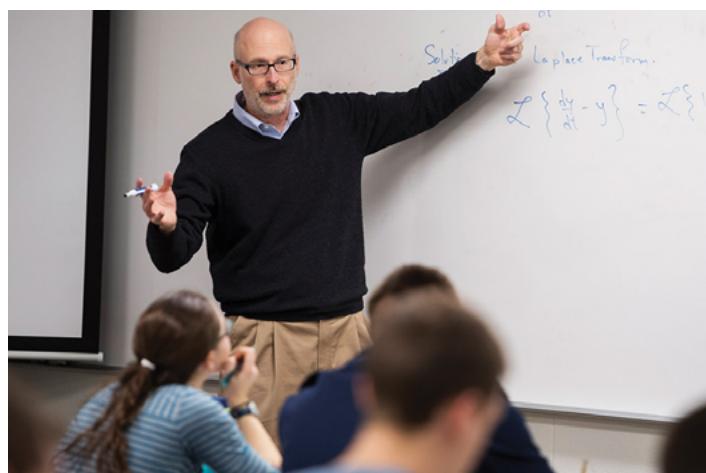
| | |
|--|-------------|
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| GBIO-1000 Principles of Biology | 3.5 |
| MATH-3610 Linear Algebra | 3 |
| PHYS-2130 General Physics III | 2 |
| Humanities Elective | 3 |
| Mathematics Electives | 6 |
| Social Science/Global Awareness Elective | 3 |
| Electives | 7 |
| Total | 33.5 |

Fourth Year:

| | |
|--|-------------|
| MATH-4800 Capstone Experience in Mathematics | 3 |
| History Elective | 3 |
| Mathematics Electives | 6 |
| Electives | 19.5 |
| Total | 31.5 |

Graduate Program Pathway Option for Mathematics — Bachelor of Arts

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





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 semester hours:

| | |
|--|-------------|
| Mathematics Core Requirements..... | 48 |
| CS-1210 C++ Programming..... | 2 |
| MATH-1710, 1720, 2710 Calculus I, II, and III | 13 |
| MATH-1990 Beautiful Math Structures and Thinking..... | 3 |
| MATH-2210 Logic and Methods of Proof | 3 |
| MATH-2740 Differential Equations | 3 |
| MATH-2800 LaTeX for Technical Documents | 1 |
| MATH-3610 Linear Algebra..... | 3 |
| MATH-3800 Research Methods..... | 1 |
| MATH-4610 Abstract Algebra I..... | 3 |
| MATH-4710 Real Variables I..... | 3 |
| *MATH-4800 Capstone Experience in Mathematics..... | 3 |
| PHYS-2110, 2120, 2130 General Physics I, II, and III..... | 10 |
| Electives (meeting the following criteria) | 21 |
| Applied courses (at least six hours from the following applied courses) | 6–15 |
| MATH-3110 Probability and Statistics..... | 3 |
| MATH-3120 Theory of Probability | 3 |
| MATH-3240 Introduction to Operations Research..... | 3 |
| MATH-3550 Discrete Mathematics: Graph Theory..... | 3 |
| MATH-3750 Introduction to Dynamical Systems | 3 |
| MATH-3760 Numerical Analysis | 3 |
| MATH-4130 Mathematical Statistics | 3 |
| MATH-4210 Mathematical Methods for Physicists | 3 |
| MATH-4880 Topics in Mathematics..... | 1–3 |
| MATH-4900 Independent Study in Mathematics..... | 1–3 |
| Theoretical courses (at least six hours from the following theoretical courses) | 6–15 |
| MATH-3500 Number Theory | 3 |
| MATH-3550 Discrete Mathematics: Graph Theory..... | 3 |
| MATH-3560 Discrete Mathematics: Combinatorics | 3 |
| MATH-3710 Advanced Calculus..... | 3 |
| MATH-3740 Complex Variables..... | 3 |
| MATH-4130 Mathematical Statistics | 3 |
| MATH-4410 Euclidean and Non-Euclidean Geometry | 3 |
| MATH-4450 Topology | 3 |
| MATH-4620 Abstract Algebra II..... | 3 |
| MATH-4720 Real Variables II | 3 |
| MATH-4880 Topics in Mathematics..... | 1–3 |
| MATH-4900 Independent Study in Mathematics..... | 1–3 |
| *Capstone Course | |

Mathematics Major (BS) Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0–4 |
| General Education Requirements..... | 44.5 |
| Mathematics Major Requirements..... | 69 |
| Electives | 14.5 |
| Total (minimum, not including proficiency) | 128 |

A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Mathematics — BS

First Year:

| | |
|---|-----------|
| BTGE-1725 The Bible and the Gospel | 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 Healthy Living..... | 2 |
| Total | 30 |

Second Year:

| | |
|---|-----------|
| 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-2740 Differential Equations | 3 |
| MATH-3800 Research 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:

| | |
|--|-----------|
| MATH-4800 Capstone Experience in Mathematics | 3 |
| History Elective | 3 |
| Mathematics Electives | 15 |
| Social Science/Global Awareness Elective | 3 |
| Electives | 10 |
| Total | 34 |

Graduate Program Pathway Option for Mathematics — Bachelor of Science

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



Physics — Bachelor of Science

The **Bachelor of Science degree with a major in physics** prepares students for graduate study in physics or for employment opportunities in industry. The curriculum includes courses prescribed by leading graduate-level physics programs in the nation.

Students should include courses in mathematics and chemistry as general electives. Students must demonstrate proficiency in the general physics sequence to advance into 3000- and 4000-level courses.

Course requirements involve 69.5 semester hours including:

| | |
|--|-------------|
| Physics Core Requirements | 63.5 |
| CHEM-1050 Chemistry for Engineers | 3.5 |
| CS-1210 C++ Programming | 2 |
| EGEE-2050 Circuits and Instrumentation..... | 4 |
| MATH-1710, 1720, 2710 Calculus I, II, and III | 13 |
| MATH-2740 Differential Equations | 3 |
| MATH-3610 Linear Algebra..... | 3 |
| *PHYS-2110, 2120, 2130 General Physics I, II, and III | 10 |
| PHYS-3110 Intermediate Physics Laboratory | 2 |
| PHYS-3310 Theoretical Mechanics | 3 |
| PHYS-3350 Thermal Physics | 3 |
| PHYS-3410 Electromagnetic Theory | 3 |
| PHYS-3510 Modern Physics..... | 3 |
| PHYS-3810 Research in Physics..... | 2 |
| PHYS-4110 Advanced Physics Laboratory | 2 |
| PHYS-4210 Mathematical Methods for Physicists | 3 |
| PHYS-4520 Quantum Mechanics | 3 |
| PHYS-4800 Senior Seminar — Physics | 1 |
| Electives selected from the following PHYS-3000 and PHYS-4000-level courses | 6 |
| PHYS-3330 Acoustics | 3 |
| PHYS-4880 Topics in Physics | 1–3 |

*All students must earn a C+ or higher in these courses.

BS Physics Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0–4 |
| Other General Education Requirements..... | 44.5 |
| Physics Major Requirements | 69.5 |
| Electives | 14 |
| Total (minimum, not including proficiency) | 128 |



A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Physics — BS

First Year:

| | |
|--|-------------|
| BTGE-1725 The Bible and the Gospel | 3 |
| CHEM-1050 Chemistry for Engineers | 3.5 |
| COM-1100 Fundamentals Speech..... | 3 |
| CS-1210 C++ Programming..... | 2 |
| ENG-1400 Composition..... | 3 |
| MATH-1710,1720 Calculus I and II | 10 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| PHYS-2110 General Physics I | 4 |
| Total | 30.5 |

Second Year:

| | |
|--|-------------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| EGEE-2050 Circuits and Instrumentation..... | 4 |
| GBIO-1000 Principles of Biology | 3.5 |
| PHYS-3110 Intermediate Physics Laboratory | 2 |
| MATH-2710 Calculus III | 3 |
| MATH-2740 Differential Equations | 3 |
| PHYS-2120, 2130 General Physics II and III | 6 |
| PHYS-3310 Theoretical Mechanics | 3 |
| Total | 30.5 |

Third Year:

| | |
|--|-----------|
| BTGE-3755 Theology I..... | 3 |
| BTGE-3765 Theology II | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| MATH-3610 Linear Algebra..... | 3 |
| GSS-1100 Politics and American Culture | 3 |
| PHYS-3350 Thermal Physics | 3 |
| PHYS-3410 Electromagnetic Theory | 3 |
| PHYS-3510 Modern Physics | 3 |
| PHYS-3810 Research in Physics..... | 2 |
| LIT-2XXX Literature Elective | 3 |
| Electives | 5 |
| Total | 34 |

Fourth Year:

| | |
|--|-----------|
| PHYS-4110 Advanced Physics Laboratory | 2 |
| PHYS-4210 Mathematical Methods for Physicists..... | 3 |
| PHYS-4520 Quantum Mechanics | 3 |
| PHYS-4800 Senior Seminar — Physics | 1 |
| History Elective/Global Awareness Elective | 3 |
| Humanities Elective | 3 |
| Physics Electives | 6 |
| Social Science Elective | 3 |
| Electives | 9 |
| Total | 33 |

Graduate Program Pathway Option for Physics — Bachelor of Science

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



Teacher Education Licensure Programs Adolescent and Young Adult

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

- Chemistry
- Life Science
- Mathematics – Integrated
- Physical Science
- Physics
- Science Comprehensive – Integrated

These education majors prepare students to engage the culture as teachers in the middle school and high school setting, in both public and private institutions. The goal of these programs is to prepare future educators with a heart for Christ and a high view of God's Word.

The course requirements for each licensure field are outlined under each major. However, the following courses are common to all adolescent/young adult majors in this department:

Teacher Education Professional Requirements 44

Teacher Education Program Pre-requisites 14

| | |
|---|-----------|
| EDSP-2100 Exceptionalities and Behavior | 2 |
| EDUC-1000 The Education Profession | 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 |
| Professional Program Requirements..... | 30 |
| EDSE-3000 Principles of Teaching AYA Learners..... | 4 |
| EDSE-4450 Adolescent/Young Adult Field Experience | 2 |
| EDSP-4250 Communication, Collaboration and Inclusion. | 2 |
| EDUC-3100 Philosophical Foundations of Education..... | 3 |
| EDUC-3200 Faith and Learning Alignment (4–12)..... | 1 |
| EDUC-4000 Reading and Writing in the Disciplines: AYA and Multi-Age | 3 |
| *MTED-3120 Teaching Mathematics..... | 3 |
| (or SCED-3120 Teaching Science)..... | 3) |
| Capstone | 12 |
| EDSE-4900 Student Teaching and Seminar: AYA..... | 12 |

*Program defined

Specific information regarding admission to the Teacher Education Program and course descriptions is located in the School of Education and Social Work section.

Chemistry Education (Bachelor of Arts)

Course requirements involve 43.5 semester hours including:

| | |
|---|-------------|
| Chemistry Professional Content | 43.5 |
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| CHEM-2210 Analytical Chemistry I..... | 3 |
| CHEM-2800 Introduction to Research in Chemistry..... | 1 |
| CHEM-3210 Environmental Chemistry..... | 4 |
| CHEM-3410 Inorganic Chemistry | 3 |
| CHEM-3510, 3520 Organic Chemistry I and II | 8 |
| *CHEM-4800 Senior Seminar — Chemistry..... | 1 |
| GBIO-1000 Principles of Biology | 3.5 |
| MATH-1700 Calculus and Dynamical Systems for the Life Sciences..... | 4 |
| the Life Sciences..... | 4 |
| PHYS-1010, 1020 College Physics I and II | 8 |
| Teacher Education Professional Requirements | 44 |

*Capstone Course for Chemistry program

Chemistry Education (BA) Summary

| | |
|---|------------|
| Proficiency Requirements | 0–4 |
| General Education Requirements..... | 38–46 |
| Chemistry Professional Content Requirements | 43.5 |
| Teacher Education Professional Requirements | 44 |
| General Electives | 0–2.5 |
| Total (minimum, not including proficiency) | 128 |

A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Chemistry Education — BA

First Year:

| | |
|--|-------------|
| BTGE-1725 The Bible and the Gospel | 3 |
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| COM-1100 Fundamentals of Speech..... | 3 |
| EDUC-1000 The Education Profession..... | 2 |
| ENG-1400 Composition..... | 3 |
| GBIO-1000 Principles of Biology | 3.5 |
| GSS-1100 Politics and American Culture..... | 3 |
| MATH-1700 Calculus & Dynamical Systems for the Life Sciences.... | 4 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Total | 31.5 |

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 |
| 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 |
| PHYS-1010, 1020 College Physics I and II | 8 |
| Electives | 2.5 |
| Total | 32.5 |

Third Year:

| | |
|---|-----------|
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| CHEM-3210 Environmental Chemistry | 4 |
| CHEM-3410 Inorganic Chemistry | 3 |
| CHEM-3510, 3520 Organic Chemistry I and II | 8 |
| EDSE-3000 Principles of Teaching AYA Learners | 4 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| LIT-2XXX Literature Elective | 3 |
| SCED-3120 Teaching Science for Adolescent and Young Adult | 3 |
| Total | 34 |

Fourth Year:

| | |
|---|-----------|
| CHEM-4800 Senior Seminar — Chemistry | 1 |
| EDSE-4450 Adolescent/Young Adult Field Experience | 2 |
| EDSE-4900 Student Teaching and Seminar: AYA | 12 |
| EDSP-4250 Communication, Collaboration and Inclusion..... | 2 |
| EDUC-3100 Philosophical Foundations of Education | 3 |
| EDUC-3200 Faith and Learning Alignment (4–12) | 1 |
| EDUC-4000 Reading and Writing in the Disciplines: AYA and Multi-Age | 3 |
| History Elective | 3 |
| Social Science Elective | 3 |
| Total | 30 |

Life Science Education (Bachelor of Arts)

Course requirements involve 56.5 semester hours including:

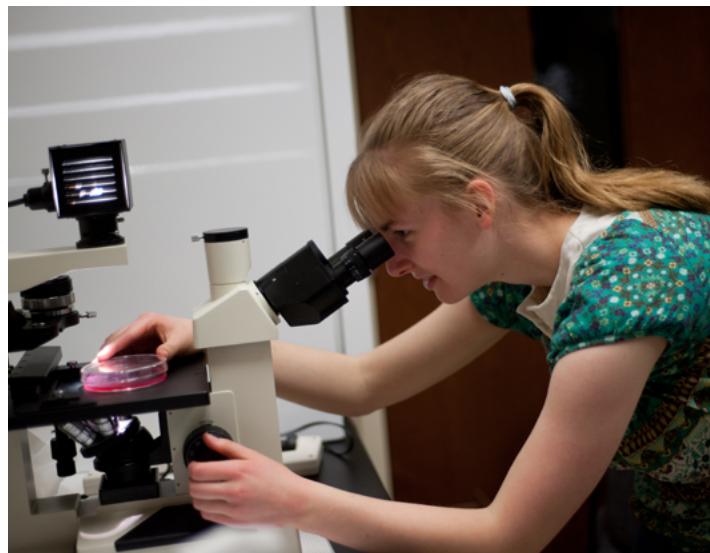
Life Science Professional Content

| | |
|--|-------------|
| Biology Core Requirements | 29 |
| BIO-1115 Biology I: Cell Biology..... | 4 |
| BIO-1120 Biology II: Zoology | 4 |
| BIO-2500 General Botany | 4 |
| BIO-2600 General Ecology..... | 4 |
| BIO-3300 Genetics..... | 4 |
| BIO-3710 Biochemistry..... | 4 |
| *BIO-4800 Senior Seminar — Biology..... | 1 |
| Biology electives selected from the following | 4 |
| BIO-3410 Parasitology and Invertebrate Zoology | 3 |
| BIO-3450 Human Structure and Function I..... | 4 |
| BIO-3460 Human Structure and Function II | 4 |
| BIO-3510 Plant Physiology | 3 |
| BIO-3520 Plant Taxonomy | 3 |
| BIO-3610 Ecophysiology | 3 |
| BIOA-3600 Topics in Environmental Biology | 4 |
| MBIO-4300 Molecular Biology | 4 |
| Physical Science/Mathematics..... | 23.5 |
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| CHEM-3510 Organic Chemistry I | 4 |
| GSCI-1010 Principles of Earth Science | 3.5 |
| GMTH-1030 Precalculus..... | 4 |
| PHYS-1010 College Physics I | 4 |
| Teacher Education Professional Requirements | 44 |

*Capstone Course for Life Science program

Life Science Education Summary

| | |
|---|--------------|
| Proficiency Requirements | 0-4 |
| General Education Requirements..... | 38-46 |
| Life Science Professional Content | 52.5 |
| Teacher Education Professional Requirements | 44 |
| Total (minimum, not including proficiency) | 134.5 |



A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Life Science Education — BA

First Year:

| | |
|--|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| BIO-1115 Biology I: Cell Biology | 4 |
| BIO-1120 Biology II: Zoology | 4 |
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| EDUC-1000 The Education Profession..... | 2 |
| ENG-1400 Composition..... | 3 |
| GMTH-1030 Precalculus..... | 4 |
| GSS-1100 Politics and American Culture..... | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Total | 33 |

Second Year:

| | |
|---|-----------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| BIO-2500 General Botany | 4 |
| BIO-2600 General Ecology..... | 4 |
| CHEM-3510 Organic Chemistry I | 4 |
| COM-1100 Fundamentals of Speech..... | 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 |
| Total | 33 |

Third Year:

| | |
|---|-------------|
| BTGE-3755 Theology I..... | 3 |
| BTGE-3765 Theology II | 3 |
| BIO-3300 Genetics | 4 |
| BIO-3710 Biochemistry..... | 4 |
| EDSE-3000 Principles of Teaching AYA Learners | 4 |
| GSCI-1010 Principles of Earth Science | 3.5 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| PHYS-1010 College Physics I | 4 |
| Biology Electives | 4 |
| LIT-2XXX Literature Elective | 3 |
| Social Science/Global Awareness Elective..... | 3 |
| Total | 38.5 |

Fourth Year:

| | |
|---|-----------|
| BIO-4800 Senior Seminar—Biology..... | 1 |
| EDSE-4450 Adolescent/Young Adult Field Experience | 2 |
| EDSE-4900 Student Teaching and Seminar: AYA | 12 |
| EDSP-4250 Communication, Collaboration and Inclusion..... | 2 |
| EDUC-3100 Philosophical Foundations of Education | 3 |
| EDUC-3200 Faith and Learning Alignment (4–12) | 1 |
| EDUC-4000 Reading and Writing in the Disciplines: AYA and Multi-Age | 3 |
| SCED-3120 Teaching Science | 3 |
| History Elective..... | 3 |
| Total | 30 |



Mathematics Education — Integrated (Bachelor of Arts)

Course requirements involve 49 semester hours including:

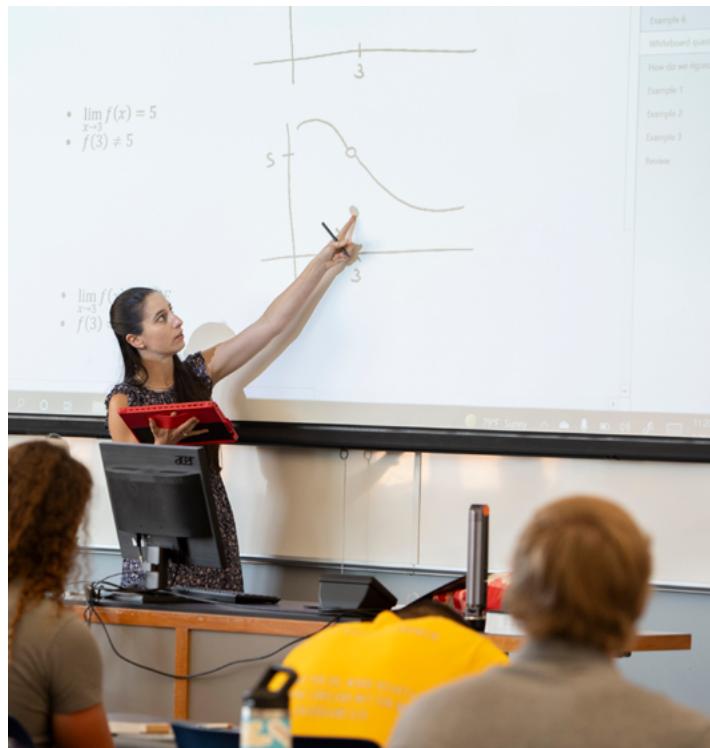
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|---|-----------|
| Mathematics Professional Content..... | 42 |
| MATH-1710 Calculus I | 5 |
| MATH-1720 Calculus II | 5 |
| MATH-1990 Beautiful Math Structures and Thinking | 3 |
| MATH-2210 Logic and Methods of Proof | 3 |
| MATH-2710 Calculus III | 3 |
| *MATH-3050 Algebraic Structures for Secondary Education.... | 4 |
| MATH-3110 Probability and Statistics | 3 |
| MATH-3800 Research Methods in Mathematics | 1 |
| MATH-4410 Euclidean and Non-Euclidean Geometry | 3 |
| **MATH-4800 Capstone Experience in Mathematics | 3 |
| Mathematics Electives | 6 |
| PHYS-2120 General Physics II | 4 |
| Any MATH-3XXX/4XXX course not already required | 3–6 |
| One course Selected From the Following | 3 |
| MATH-3550 Discrete Mathematics: Graph Theory..... | 3 |
| MATH-3560 Discrete Mathematics: Combinatorics..... | 3 |
| Computer/Math Methods/Physics | 7 |
| CS-1210 C++ Programming..... | 2 |
| MATH-2800 LaTeX for Technical Documents | 1 |
| PHYS-2110 General Physics I | 4 |
| Teacher Education Professional Requirements | 44 |

*A student may replace MATH-3050 by taking MATH-3500, MATH-3610, and MATH-4610.

**Capstone Course for Mathematics program

Mathematics Education — Integrated Major (BA) Summary

| | |
|--|--------------|
| Proficiency Requirements | 0–4 |
| General Education Requirements..... | 41.5–49.5 |
| Mathematics Education — Integrated Professional Content..... | 51 |
| Teacher Education Professional Requirements | 44 |
| Total (minimum, not including proficiency) | 134.5 |



A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Mathematics Education (Integrated) — BA

First Year:

| | |
|--|-------------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| CS-1210 C++ Programming | 2 |
| EDSP-2100 Exceptionalities and Behavior | 2 |
| EDUC-1000 The Education Profession..... | 2 |
| ENG-1400 Composition..... | 3 |
| GBIO-1000 Principles of Biology | 3.5 |
| MATH-1710, 1720 Calculus I and II | 10 |
| MATH-1990 Beautiful Math Structures and Thinking..... | 3 |
| MATH-2800 LaTeX for Technical Documents (computer elective)..... | 1 |
| Total | 32.5 |

Second Year:

| | |
|--|-----------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| EDUC-2050 Teaching Diverse Learners..... | 2 |
| EDUC-2100 e-Learning for Educators | 3 |
| EDUC-2300 Assessment and Differentiation..... | 2 |
| EDUC-2500 Educational Psychology | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| MATH-2210 Logic and Methods of Proof | 3 |
| MATH-2710 Calculus III | 3 |
| MATH-3800 Research Methods in Mathematics | 1 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| PHYS-2110 General Physics I | 4 |
| Total | 32 |

Third Year:

| | |
|--|-----------|
| BTGE-3755 Theology I | 3 |
| EDSE-3000 Principles of Teaching AYA Learners | 4 |
| EDUC-3100 Philosophical Foundations of Education | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| LIT-2XXX Literature Elective | 3 |
| MATH-3050 Algebraic Structures for Secondary Education | 4 |
| MATH-3110 Probability and Statistics | 3 |
| MATH-4410 Euclidean and Non-Euclidean Geometry | 3 |
| MATH-3XXX or 4XXX Electives | 6 |
| Social Science/Global Awareness Elective | 3 |
| Total | 35 |

Fourth Year:

| | |
|---|-----------|
| BTGE-3765 Theology II | 3 |
| EDSE-4450 Adolescent/Young Adult Field Experience | 2 |
| EDSE-4900 Student Teaching and Seminar: AYA | 12 |
| EDSP-4250 Communication, Collaboration and Inclusion..... | 2 |
| EDUC-3200 Faith and Learning Alignment (4–12) | 1 |
| EDUC-4000 Reading and Writing in the Disciplines: AYA and Multi-Age | 3 |
| MATH-4800 Capstone Experience in Mathematics | 3 |
| MTED-3120 Teaching Mathematics..... | 3 |
| History Elective | 3 |
| One Course – Discrete Mathematics | 3 |
| Total | 35 |

Physical Science Education (Bachelor of Arts)

Course requirements involve 61.5 semester hours including:

| | |
|---|-------------|
| Physical Science Professional Content..... | 61.5 |
| GBIO-1000 Principles of Biology | 3.5 |
| (or BIO-1115 Biology I: Cell Biology..... | 4) |
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| CHEM-3510 Organic Chemistry I | 4 |
| GEOL-1110 Introduction to Physical Geology | 4 |
| GEOL-1120 Historical Geology | 4 |
| ESCI-2310 Introduction to Oceanography | 4 |
| ESCI-2510 Introductory Astronomy | 4 |
| MATH-1710, 1720 Calculus I and II | 10 |
| MATH-2740 Differential Equations | 3 |
| PHYS-2110, 2120, 2130 General Physics I, II, and III..... | 10 |
| PHYS-3110 Intermediate Physics Laboratory | 2 |
| PHYS-3510 Modern Physics | 3 |
| CHEM-2800 Introduction to Research in Chemistry | 1 |

Senior capstone experience selected from the following... 1

- *CHEM-4800 Senior Seminar — Chemistry
- 1
- *PHYS-4800 Senior Seminar — Physics
- 1

Teacher Education Professional Requirements 44

*Capstone Course for Physical Science

Physical Science Education Curriculum Summary

| | |
|---|--------------|
| Proficiency Requirements | 0-5 |
| General Education Requirements..... | 38-46 |
| Physical Science Professional Content..... | 61.5 |
| Teacher Education Professional Requirements | 44 |
| Total (minimum, not including proficiency) | 143.5 |



A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Physical Science Education — BA

First Year:

| | |
|--|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| COM-1100 Fundamentals of Speech..... | 3 |
| EDUC-1000 The Education Profession..... | 2 |
| ENG-1400 Composition..... | 3 |
| MATH-1710, 1720 Calculus I and II | 10 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| PHYS-2110 General Physics I | 4 |
| Total | 35 |

Second Year:

| | |
|--|-------------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| GBIO-1000 Principles of Biology | 3.5 |
| (or BIO-1115 Biology I: Cell 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 |
| PHYS-2120, 2130 General Physics II and III | 6 |
| Total | 38.5 |

Third Year:

| | |
|--|-----------|
| BTGE-3755 Theology I..... | 3 |
| BTGE-3765 Theology II | 3 |
| EDSE-3000 Principles of Teaching AYA Learners | 4 |
| ESCI-2510 Introduction to Astronomy..... | 4 |
| GEOL-1110 Introduction to Physical Geology | 4 |
| GEOL-1120 Historical Geology | 4 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| PHYS-3510 Modern Physics | 3 |
| CHEM-2800 Introduction to Research in Chemistry..... | 1 |
| History Elective..... | 3 |
| LIT-2XXX Literature Elective | 3 |
| Social Science/Global Awareness Elective..... | 3 |
| Total | 38 |

Fourth Year:

| | |
|--|-----------|
| EDSE-4450 Adolescent/Young Adult Field Experience | 2 |
| EDSE-4900 Student Teaching and Seminar: AYA | 12 |
| EDSP-4250 Communication, Collaboration and Inclusion..... | 2 |
| EDUC-3100 Philosophical Foundations of Education | 3 |
| EDUC-3200 Faith and Learning Alignment (4-12) | 1 |
| EDUC-4000 Reading and Writing in the Disciplines: AYA and Multi-Age | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| PHYS-3110 Intermediate Physics Laboratory | 2 |
| PHYS-4800 Senior Seminar — Physics | 1 |
| (or CHEM-4800 Senior Seminar — Chemistry..... | 1) |
| SCED-3120 Teaching Science | 3 |
| Total | 32 |



Physics Education (Bachelor of Arts)

Course requirements involve 56 semester hours including:

Physics Professional Content

Physics Core Requirements 25

| | |
|---|----|
| PHYS-2110, 2120, 2130 General Physics I, II, and III..... | 10 |
| PHYS-3110 Intermediate Physics Laboratory | 2 |
| PHYS-3310 Theoretical Mechanics | 3 |
| PHYS-3410 Electromagnetic Theory | 3 |
| PHYS-3510 Modern Physics I..... | 3 |
| PHYS-4800 Senior Seminar — Physics | 1 |

Physics electives selected from the following 3

| | |
|---|-----|
| PHYS-3350 Thermal Physics | 3 |
| PHYS-4210 Mathematical Methods for Physicists | 3 |
| PHYS-4520 Quantum Mechanics | 3 |
| *PHYS-4880 Topics in Physics..... | 1-3 |

Departmental Requirements 31

| | |
|--|-----|
| GBIO-1000 Principles of Biology | 3.5 |
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| GSCI-1010 Principles of Earth Science | 3.5 |
| MATH-1710, 1720, 2710 Calculus I, II, and III..... | 13 |
| MATH-2740 Differential Equations..... | 3 |

Teacher Education Professional Requirements 44

*Capstone Course for Physics

Physics Education Curriculum Summary

| | |
|---|------------|
| Proficiency Requirements | 0-4 |
| Other General Education Requirements..... | 38-46 |
| Physics Education Professional Content | 56 |
| Teacher Education Professional Requirements | 44 |
| Total (minimum, not including proficiency) | 138 |



A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Physics Education — BA

First Year:

| | |
|--|-----------|
| BTGE-1725 The Bible and the Gospel | 3 |
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| COM-1100 Fundamentals of Speech..... | 3 |
| EDUC-1000 The Education Profession..... | 2 |
| ENG-1400 Composition..... | 3 |
| MATH-1710, 1720 Calculus I and II | 10 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| PHYS-2110 General Physics I | 4 |
| Total | 35 |

Second Year:

| | |
|--|-------------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 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 |
| 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 | 36.5 |

Third Year:

| | |
|---|-------------|
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| EDSE-3000 Principles of Teaching AYA Learners | 4 |
| GSCI-1010 Principles of Earth Science | 3.5 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| PHYS-3110 Intermediate Physics Laboratory | 2 |
| PHYS-3310 Theoretical Mechanics | 3 |
| PHYS-3510 Modern Physics | 3 |
| History Elective | 3 |
| LIT-2XXX Literature Elective | 3 |
| Social Science/Global Awareness Elective | 3 |
| Total | 33.5 |

Fourth Year:

| | |
|---|-----------|
| EDSE-4450 Adolescent/Young Adult Field Experience | 2 |
| EDSE-4900 Student Teaching and Seminar: AYA | 12 |
| EDSP-4250 Communication, Collaboration and Inclusion..... | 2 |
| EDUC-3100 Philosophical Foundations of Education | 3 |
| EDUC-3200 Faith and Learning Alignment (4-12) | 1 |
| EDUC-4000 Reading and Writing in the Disciplines: AYA and Multi-Age | 3 |
| PHYS-3410 Electromagnetic Theory | 3 |
| PHYS-4800 Senior Seminar — Physics | 1 |
| SCED-3120 Teaching Science | 3 |
| Physics Elective | 3 |
| Total | 33 |

Science Comprehensive Education — Integrated (Bachelor of Arts)

Course requirements involve 68 semester hours including:
Science Comprehensive Education — Integrated Professional Content

| | |
|---|-----------|
| Core Requirements..... | 58 |
| BIO-1115 Biology I: Cell Biology..... | 4 |
| BIO-1120 Biology II: Zoology | 4 |
| BIO-2500 General Botany | 4 |
| BIO-2600 General Ecology..... | 4 |
| BIO-3300 Genetics..... | 4 |
| *BIO-4800 Senior Seminar — Biology..... | 1 |
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| CHEM-2800 Introduction to Research in Chemistry..... | 1 |
| CHEM-3510 Organic Chemistry I | 4 |
| CHEM-3710 Biochemistry | 4 |
| ESCI-2510 Introductory Astronomy | 4 |
| GEOL-1110 Introduction to Physical Geology | 4 |
| GMTH-1030 Precalculus..... | 4 |
| PHYS-1010, 1020 College Physics I and II | 8 |
| Electives selected from the following..... | 10 |
| One biology selected from the following..... | 3 |
| BIO-3410 Parasitology and Invertebrate Zoology | 3 |
| BIO-3450 Human Structure and Function I | 4 |
| BIO-3510 Plant Physiology..... | 3 |
| BIO-3520 Plant Taxonomy..... | 3 |
| BIO-3610 Ecophysiology | 3 |
| BIOA-3600 Topics in Environmental Biology | 4 |
| MBIO-4300 Molecular Biology..... | 4 |
| One chemistry selected from the following..... | 3 |
| CHEM-2210 Analytical Chemistry I | 3 |
| CHEM-3520 Organic Chemistry II..... | 4 |
| One earth science selected from the following..... | 4 |
| GEOL-1120 Historical Geology | 4 |
| ESCI-2310 Introduction to Oceanography | 4 |
| ESCI-2410 General Meteorology..... | 4 |
| Teacher Education Professional Requirements | 44 |

*Capstone Course

| Science Comprehensive Education — Integrated Summary | |
|---|------------|
| Proficiency Requirements | 0-4 |
| General Education Requirements | 38-46 |
| Science Comprehensive Professional Content..... | 68 |
| Teacher Education Professional Requirements | 44 |
| Total (minimum, not including proficiency) | 150 |



A complete description of the general education requirements is found on page 26.

Suggested Four-Year Curriculum for a Major in Science Comprehensive Education — BA

First Year:

| | |
|--|-----------|
| BIO-1115 Biology I: Cell Biology..... | 4 |
| BIO-1120 Biology II: Zoology | 4 |
| BTGE-1725 The Bible and the Gospel | 3 |
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| CHEM-2800 Introduction to Research in Chemistry..... | 1 |
| EDUC-1000 The Education Profession..... | 2 |
| ENG-1400 Composition..... | 3 |
| GEOL-1110 Introduction to Physical Geology | 4 |
| GMTH-1030 Precalculus..... | 4 |
| GSS-1100 Politics and American Culture..... | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Total | 38 |

Second Year:

| | |
|---|-----------|
| BIO-2500 General Botany | 4 |
| BIO-2600 General Ecology..... | 4 |
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| CHEM-3510 Organic Chemistry I | 4 |
| COM-1100 Fundamentals of Speech..... | 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 |
| ESCI-2510 Introductory Astronomy | 4 |
| Total | 37 |

Third Year:

| | |
|---|-----------|
| BIO-3300 Genetics | 4 |
| BTGE-3755 Theology I | 3 |
| BTGE-3765 Theology II | 3 |
| EDSE-3000 Principles of Teaching AYA Learners | 4 |
| CHEM-3710 Biochemistry | 4 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| PHYS-1010, 1020 College Physics I and II | 8 |
| Biology Elective | 3 |
| Chemistry Elective | 3 |
| LIT-2XXX Literature Elective | 3 |
| Social Science/Global Awareness Elective | 3 |
| Total | 41 |

Fourth Year:

| | |
|---|-----------|
| BIO-4800 Senior Seminar — Biology | 1 |
| EDSE-4450 Adolescent/Young Adult Field Experience | 2 |
| EDSE-4900 Student Teaching and Seminar: AYA | 12 |
| EDSP-4250 Communication, Collaboration and Inclusion..... | 2 |
| EDUC-3100 Philosophical Foundations of Education | 3 |
| EDUC-3200 Faith and Learning Alignment (4-12) | 1 |
| EDUC-4000 Reading and Writing in the Disciplines: AYA and Multi-Age | 3 |
| SCED-3120 Teaching Science | 3 |
| Earth Science Elective | 4 |
| History Elective | 3 |
| Total | 34 |



Minors

The minors in the School 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** involve 41 semester hours including:

| | |
|---|----|
| ACCT-2110 Principles of Accounting I | 3 |
| ECON-2330 Microeconomics | 3 |
| ECON-2340 Macroeconomics | 3 |
| FIN-3710 Principles of Finance | 3 |
| GMTH-3100 Theory of Interest | 4 |
| MATH-1710, 1720, 2710 Calculus I, II, and III | 13 |
| MATH-3120 Theory of Probability | 3 |
| MATH-3610 Linear Algebra | 3 |
| MATH-4130 Mathematical Statistics | 3 |
| MRKT-3600 Principles of Marketing | 3 |

Biology Minor

Course requirements for the **biology minor** involve 19 semester hours including:

| | |
|--|----------|
| BIO-1115 Biology I: Cell Biology | 4 |
| BIO-1120 Biology II: Zoology | 4 |
| BIO-2500 General Botany | 4 |
| BIO-2600 General Ecology | 4 |
| Biology Electives | 3 |

Chemistry Minor

Course requirements for the **chemistry minor** involve 18 semester hours including:

| | |
|--|---|
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| CHEM-2210 Analytical Chemistry I | 3 |
| CHEM-3510 Organic Chemistry I | 4 |
| CHEM-2XXX, 3XXX, 4XXX Electives | 3 |

Earth Science Minor

Course requirements for the **earth science minor** involve 20 semester hours including:

| | |
|--|---|
| GEOL-1110 Introduction to Physical Geology | 4 |
| GEOL-1120 Historical Geology | 4 |
| ESCI-2310 Introduction to Oceanography | 4 |
| ESCI-2410 General Meteorology | 4 |
| ESCI-2510 Introductory Astronomy | 4 |

Geology Minor

Course requirements for the **geology minor** involve 17 semester hours including:

| | |
|--|---|
| GEOL-1110 Introduction to Physical Geology | 4 |
| GEOL-1120 Historical Geology | 4 |
| GEOL-3600 Readings in Geology | 1 |
| Geology Electives | 8 |

Mathematics Minor

Course requirements for the **mathematics minor** involve 19 semester hours including:

| | |
|---|----|
| MATH-1710, 1720 Calculus I and II | 10 |
|---|----|

Mathematics electives selected from the following

| | |
|---|---|
| MATH-2210 Logic and Methods of Proof | 3 |
| MATH-2520 Discrete Math and Probability Principles for Computer Science | 3 |
| MATH-2710 Calculus III | 3 |
| MATH-2740 Differential Equations | 3 |
| Any 3000- or 4000-level mathematics course | |

Physics Minor

Course requirements for the **physics minor** involve 18 semester hours including:

| | |
|--|----------|
| PHYS-2110, 2120, 2130 General Physics I, II, and III | 10 |
| PHYS-3110 Intermediate Physics Laboratory | 2 |
| PHYS-3510 Modern Physics | 3 |
| Physics Electives | 3 |

Special Programs

Preagriculture Curriculum

The **preagriculture curriculum** is designed to satisfy the technical and non-technical requirements of the first two years of a typical agriculture program. Students should research agricultural schools to which they wish to transfer at the junior level so that application materials can be completed in advance of deadlines. The preagriculture students should confer with their advisor to select electives based on the following criteria:

- The requirements of the school to which they will transfer after leaving Cedarville University
- The specific agricultural program they wish to enter

Course requirements include core requirements and an emphasis in either agriculture business or agriculture science. Core requirements include:

| | |
|---|----|
| BTGE-1725 The Bible and the Gospel | 3 |
| BIO-1115 Biology I: Cell Biology | 4 |
| CHEM-1110 General Chemistry I | 4 |
| ENG-1400 Composition | 3 |
| GMTH-1030 Precalculus | 4 |
| (or MATH-1710 Calculus I | 5) |
| GSS-1100 Politics and American Culture | 3 |
| HUM-1400 Introduction to the Humanities | 3 |

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 Biology II: Zoology | 4 |
| BIO-2500 General Botany | 4 |
| BIO-2600 General Ecology | 4 |
| BIO-2210 Microbiology | 4 |
| BIO-3300 Genetics | 4 |
| BUS-2150 Statistics for Business | 3 |
| ECON-2330, 2340 Microeconomics and Macroeconomics .. | 6 |
| MGMT-3500 Principles of Organization and Management.... | 3 |
| Humanities Electives | 6 |
| Social Science Elective | 3 |

Agriculture Science Emphasis

The **agriculture science emphasis** prepares students for careers including agronomy, animal science, food science, and horticulture.

Course requirements include:

| | |
|--|----|
| BIO-1120 Biology II: Zoology | 4 |
| BIO-2500 General Botany | 4 |
| BIO-2600 General Ecology | 4 |
| CHEM-3510, 3520 Organic Chemistry I and II | 8 |
| MATH-1720 Calculus II | 5 |
| MATH-3110 Probability and Statistics | 3 |
| Biological Science Elective | 4 |
| (or CHEM-3710 Biochemistry | 4) |
| Humanities Elective | 3 |
| Social Science Elective | 3 |

**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.

Course requirements include:

BIO-3800 Biological Research.....
2

**Electives selected from.....
16**

| | |
|--|---|
| BIO-2210 Microbiology..... | 4 |
| BIO-3410 Parasitology & Invertebrate Zoology | 3 |
| BIO-3420 Comparative Vertebrate Anatomy and Physiology | 4 |
| BIO-3520 Plant Taxonomy | 3 |
| BIO-3610 Ecophysiology..... | 3 |
| BIO-4910 Environmental Biology Internship | 2 |
| *BIOA-3220 Aquatic Biology | 4 |
| *BIOA-4710 Conservation Biology | 4 |
| *BIOA-4820 Restoration Ecology | 4 |
| ENVS-3100 Introduction Geographic Information Systems .. | 4 |
| ENVS-3200 Advanced 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.

**Prephysician Assistant**

Cedarville students who successfully apply to physician assistant school typically choose a degree in biology or in allied health (offered by the School of Allied Health and Psychology). Students should contact the specific schools they wish to attend to determine the exact prerequisites as well as the required number of direct healthcare hours as these vary from one program to another. An ACT composite score of at least 25 (or SAT composite of 1150) is highly recommended. In addition to general degree requirements, the following courses are typically required or recommended for admission:

Biology Courses:

| | |
|---|----|
| BIO-1115 Biology I: Cell Biology..... | 4 |
| GBIO-2010, 2015 Human Anatomy & Physiology I and II | 8 |
| (or BIO-3450, 3460 Human Structure and Function I and II | 8) |

BIO-2210 Microbiology

Chemistry Courses:

| | |
|--|---|
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| CHEM-3510 Organic Chemistry I | 4 |
| CHEM-3710 Biochemistry | 4 |

Mathematics Courses:

| | |
|----------------------------|---|
| GMTH-1030 Precalculus..... | 4 |
|----------------------------|---|

Psychology Courses:

| | |
|---|---|
| PYCH-1600 General Psychology | 3 |
| PYCH-2600 Human Development: Lifespan | 3 |
| PYCH-2610 Statistics..... | 3 |

Other:

| | |
|--|----|
| ALHL-2000 Medical Terminology | 3 |
| GBIO-3100 Pre-Health Professional Development II | 1 |
| (or ALHL-4960 Senior Seminar | 1) |



**Predental, Premedical, Preoptometric**

Cedarville University students have been successful in gaining admission to medical and professional schools. For many of these schools, no specific major is required; however, students typically choose majors in biology or chemistry. An ACT composite score of at least 25 (or SAT composite of 1150) is highly recommended. In addition to general degree requirements, the following courses are typically required or recommended for admission:

Biology Courses:

| | |
|--|---|
| BIO-1115 Biology I: Cell Biology..... | 4 |
| BIO-1120 Biology II: Zoology | 4 |
| BIO-3450, 3460 Human Structure and Function I and II | 8 |
| <i>Sample of Optional Electives:</i> | |
| BIO-2210 Microbiology..... | 4 |
| BIO-3300 Genetics | 4 |
| BIO-4350 Immunology | 4 |
| BIO-4260 Infectious Diseases | 3 |
| BIO-4450 Introduction to Human Gross Anatomy | 2 |

Chemistry and Physics Courses:

| | |
|--|---|
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| CHEM-3510, 3520 Organic Chemistry I and II | 8 |
| CHEM-3710 Biochemistry | 4 |
| PHYS-1010, 1020 College Physics I and II | 8 |

(or PHYS-2110, 2120 General Physics I and II..... 8)

Mathematics Courses (2 semesters from the following options):

| | |
|--|----|
| GMTH-2110 Introduction to Biostatistics..... | 3 |
| GMTH-1030 Precalculus..... | 4 |
| MATH-1700 Calculus & Dynamical Systems for the Life Science..4 (or MATH-1710 Calculus I | 5) |
| MATH-1720 Calculus II | 5 |

Other:

Students survey different medical professions and programs, learn about Cedarville's pre-health professions committee, and are guided through the graduate school application process. These courses are designed for students interested in medicine, dentistry, and optometry.

| | |
|---|---|
| GBIO-1100 Pre-Health Professional Development I (FA, First year) | 1 |
| GBIO-3100 Pre-Health Professional Development II (FA, Third year) | 1 |

**Preveterinary**

Cedarville University students have been successful in gaining admission to veterinary schools. For many of these schools, no specific major is required; however, students typically choose majors in biology or chemistry. An ACT composite score of at least 25 (or SAT composite of 1150) is highly recommended. In addition to general degree requirements, the following courses are typically required or recommended for admission:

Biology Courses:

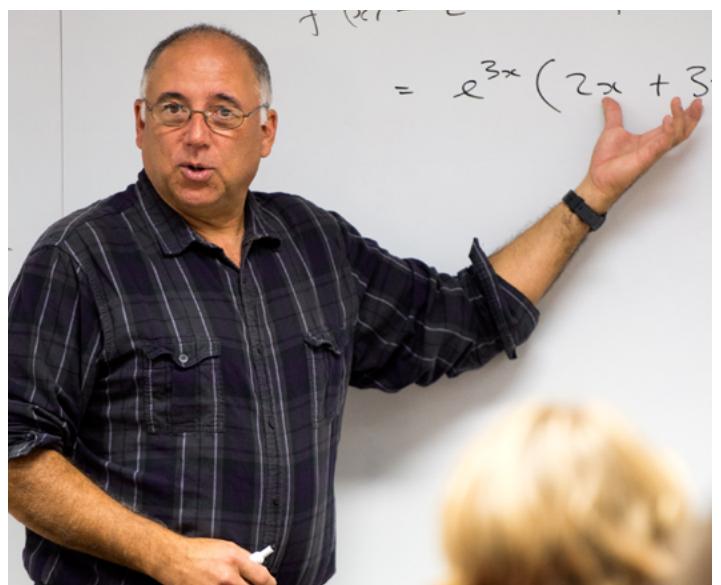
| | |
|---|---|
| BIO-1115 Biology I: Cell Biology..... | 4 |
| BIO-1120 Biology II: Zoology | 4 |
| BIO-2210 Microbiology | 4 |
| BIO-3300 Genetics | 4 |
| BIO-3410 Parasitology / Invertebrate Zoology | 3 |
| BIO-3610 Ecophysiology | 3 |
| BIO-3420 Comparative Vertebrate Anatomy and Physiology..... | 4 |

Chemistry & Physics Courses:

| | |
|--|---|
| CHEM-1110, 1120 General Chemistry I and II | 8 |
| CHEM-3510, 3520 Organic Chemistry I and II | 8 |
| CHEM-3710 Biochemistry | 4 |
| PHYS-1010, 1020 College Physics I and II | 8 |

Mathematics Courses (1–2 semesters from the following options):

| | |
|--|----|
| GMTH-2110 Introduction to Biostatistics..... | 3 |
| GMTH-1030 Precalculus..... | 4 |
| MATH-1700 Calculus & Dynamical Systems for the Life Science..4 (or MATH-1710 Calculus I | 5) |





Interdisciplinary Studies

Interdisciplinary Programs 213

Majors

| | |
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| Liberal Arts..... | 216 |

Special Programs

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| Honors Program | 213 |
| Reserve Officer Training Corps (ROTC)..... | 214 |



Interdisciplinary Programs

Mission Statement

Interdisciplinary programs at the University are designed to encourage the thinking, research, and applications that help students understand the interrelationships among disciplines that are characteristic of a true liberal arts education. Drawing from several academic disciplines, these programs promote learning that broadens and deepens the student's view of knowledge and the world as a whole.

Personal Requirements

Students who choose interdisciplinary programs typically possess a unique love for learning. They desire to know about many areas and enjoy discovering the relationships among the various academic disciplines that comprise the body of knowledge. Though most college preparatory curricula provide a good measure of breadth through their coverage of the basic disciplines, students interested in interdisciplinary programs should choose electives that sharpen their thinking skills and expand their intellectual horizons. Advanced high school courses in writing, literature, mathematics, science, economics, world history, or social science are recommended.

Although background in foreign language is not required for admission to the programs, foreign language competency is necessary for effective international service. Consequently, two or more units of foreign language in high school are strongly recommended.

Programs of Study

The University offers the following interdisciplinary programs:

- Honors Program
- Individualized Studies
- Liberal Arts
- Reserve Officer Training Corps (ROTC)
 - Air Force
 - Army

Cocurricular Opportunities

Tau Delta Kappa (TDK) provides an opportunity for fellowship, ministry, exchange of ideas, and support of students involved in the honors program.

Career Opportunities

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

- Diplomat
- Government worker
- International relations
- Military officer
- Missionary

Honors Program

The **honors program** is designed to challenge gifted students to reach their academic potential through a specially designed course of study. The courses designated as "honors courses" are rigorous and demanding, challenging students to aspire to greater heights in their academic progress.

Admission to the program for entering freshmen is based upon ACT/SAT scores, extracurricular and work experience, and a sample of expository writing. Admitted freshmen students who meet the minimum standardized examination score and GPA requirements will be invited to apply to the Honors Program. Prospective students must complete a separate application, which is available through Admissions.

A limited number of students are admitted into the program each fall. Students enrolled in the honors program are required to complete four honors courses in addition to a senior seminar or project.

Two of these courses are taken in the freshman year in a sequence entitled "The Making of the Modern Mind," which traces the development of philosophic, cultural, and artistic traditions against the background of the history of western civilization. These two courses meet general education requirements in humanities, philosophy, and history.

During the sophomore and junior years, honors students take two integrative seminars. Typically, each honors seminar provides an interdisciplinary perspective on the topic of study. Enrollment in honors seminars is limited to 20 students.

In the senior year, each honors student chooses a capstone experience from two options: (1) Honors students may complete a traditional honors thesis, working one on one with a faculty mentor; or (2) Honors students may participate in the Honors Senior Colloquium during the two semesters of their senior academic year. This seminar provides a capstone experience focusing on developing a Christian worldview in the midst of a contemporary society that is often inhospitable to biblical principle.

Through the honors program, Cedarville University encourages superior scholarship, allows a thorough integration of the various disciplines, and provides the student an opportunity to better understand how all knowledge relates to its source in God. The honors program offers an adventure in the world of ideas, coupled with practical incentives for transcribing faith and learning into the larger culture for the glory of God and the benefit of men and women in His image.

Course requirements for the honors program involve 16 semester hours including:

| | |
|---|----------------|
| I. Freshman Colloquia: The Making of the Modern Mind* |10 |
| HON-1010 The Classical and Medieval Ages | 5 |
| HON-1020 Renaissance, Reformation, and Revolutions | 5 |
| II. Honors Integrative Seminars | 4 |
| Two sections of the Honors Seminar (HON-3020) on different topics | |
| III. Honors Capstone | 2 |
| Either HON-4910 (one hour) and HON-4920 (one hour) in sequence; or a two-hour research project (HON-4950). | |

In addition to the course requirements, a cumulative grade point average of 3.50 or higher is required for completion.

*If taken together, these two courses replace the following general education requirements:

| | |
|---|---|
| HUM-1400 Introduction to the Humanities..... | 3 |
| Humanities Elective | 3 |
| (or 2000-level philosophy course if required for the major) | |

History Elective.....3

If either of these two courses are taken individually, the course may be designated as 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:

1. A student interested in an individualized studies program may submit a proposal after completing 20 semester hours at Cedarville University, exclusive of Advanced Placement, CLEP, and transfer credits, with GPA of 3.25 or higher.
2. The student must define the focus of the intended individualized program on the program approval form. In addition, the student must demonstrate that the proposed program objective cannot adequately be achieved through an existing major at Cedarville University. The program approval form must be signed by a faculty sponsor and by the department Chair of one of the major components of the program.
3. 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.
4. When the Individualized Studies Committee approves a student's proposed program, it will assign an academic advisor for the student.
5. Changes to the approved program must be approved by the faculty advisor and the Individualized Studies Committee.
6. For transcript purposes, the program will typically be called a BA 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

As a Cedarville University (CU) student, you have the opportunity to become an Air Force officer through a cooperative agreement with Wright State University's (WSU) Department of Aerospace Studies. WSU is the home of Detachment 643 and the host site for several local colleges and universities to provide the Air Force Reserve Officer Training Corps (AFROTC) program to full-time students pursuing a baccalaureate degree, and in some cases a master's degree. While courses are taken through CU, leadership laboratories and most classes are taught at WSU. CU provides transportation.

The AFROTC program is designed to produce Air Force officers who will be successful leaders. All officers are placed in positions of responsibility, facing challenging and rewarding career opportunities while using the most advanced technology in the world.

The AFROTC program is organized in two portions: the General Military Course (GMC), typically taken during freshman and sophomore years, and the Professional Officer Course (POC), usually taken during junior and senior years or during the last two years prior to graduation. A corresponding Leadership Laboratory for each year (where students apply leadership skills, demonstrate command and effective communication, develop physical fitness, and practice military customs and courtesies) is also required.

- The GMC is a no-obligation introduction to the Air Force. The course covers the Foundations of the United States Air Force (USAF) and the Evolution of USAF and Space Power.
- The POC curriculum covers communicative skills, Air Force Leadership Studies, National Security Affairs and Preparation for Active Duty.

Although the program is open to all majors, selection to the POC is very competitive and depends on your performance. All AFROTC students have the opportunity to apply for scholarships that pay partial or full tuition, books and charges, plus a monthly stipend (stipend amount depends on your progress in the program). These scholarships are available on a competitive basis to students who demonstrate academic and leadership potential. High school students interested in scholarship opportunities should apply at afrotc.com. In-college students will apply for scholarships through their AFROTC instructor. If you are a first semester freshman and want to enroll in AFROTC sign up for AES-1210 Foundations of the USAF I and AES-1211 GMC Leadership Lab.

For further information about AFROTC at CU, students should contact:

The Department of Aerospace Studies
Wright State University
Dayton, Ohio 45435
Phone: 937-775-2730
Email: afrotc@wright.edu
Website: wright.edu/air-force-rotc
or
Cedarville University Admissions Office
Phone: 937-766-7700
Email: admiss@cedarville.edu



Army

Cedarville University students have the opportunity to be commissioned as officers in the United States Army by successfully completing the Army ROTC program hosted at Central State University by the Marauder Battalion. Scholarship opportunities are available for qualified students. Classes, labs and physical training are usually conducted at Central State University, located four miles south of Cedarville. All Army ROTC courses are taken through Cedarville University. Cedarville University provides transportation to and from all ROTC activities.

The Army ROTC program's objective is to recruit, train and commission men and women possessing qualities of leadership, duty, respect, selfless service, honor, integrity and personal courage to become Commissioned Officers in the United States Army.

The Army ROTC program is divided into the Basic Course (freshman and sophomore years) and the Advanced Course (junior and senior years). Students must have credit for both the Basic Course and Advanced Course. Credit for the Basic course can be obtained by completing the Basic Course curriculum, prior or current military service, four years of Junior ROTC in High School or by attendance at the Army ROTC Basic Camp conducted at Fort Knox, Kentucky between the student's sophomore and junior year of college. Students must complete the full academic program of the Advanced Course to be commissioned. There is no military obligation until a student signs a contract with Army ROTC. The Basic Course is open to all students with no military obligation required.

Two and three year scholarships are generally available for qualified students already on campus. In certain circumstances four year scholarships may be available for specific majors. To be considered for an on-campus scholarship contact the Recruiting Operations Officer at rotc@centralstate.edu. Students must show commitment by enrolling in the proper Army ROTC Course to be considered. In addition to coursework, Army ROTC students who are contracted or desiring to contract are required to attend a weekly Leadership Laboratory and Physical Fitness Training.

High School students can apply for the National Scholarship beginning on or about June 12th between their junior and senior year of high school. Apply at goarmy.com/rotc or click on the link on the front page of the Marauder Battalions' website site at centralstate.edu/rotc. There are deadlines to apply for the scholarship.



The Army ROTC Scholarship covers 100% tuition and fees, \$1200.00 per year for books and a monthly stipend. Any academic award you are granted by Cedarville may be applied to your housing and food. There are restrictions to this, please contact Cedarville Financial Aid for specifics.

Army ROTC Cadets can participate in worldwide military training opportunities while pursuing their degree at Cedarville University. Opportunities include Airborne School, Air Assault School, Foreign Language Program, Cultural Understanding and Language Program and Cadet Troop Leaders Training.

Students can pursue a career as an active duty officer or serve part-time in the Army National Guard or the United States Army Reserves. The Army National Guard and the United States Army Reserves have alternate ways to pay for school in addition to the Army ROTC Scholarship. Students are advised to consult with the Recruiting Operations Officer in conjunction with a Recruiter prior to enlisting to ensure students stay academically aligned with school and required military training.

Interested students should contact:

Department of Military Science Central State University
Attention: Recruiting Operations Officer
Room 142
1400 Brush Row Road
Wilberforce, Ohio 45384
rotc@centralstate.edu
Website: centralstate.edu/rotc or cedarville.edu/rotc
Office: 937-376-6283
Cell: 937-361-2263

Or by contacting Cedarville 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 one of the following combined with a 3.5 high school GPA: 27 or higher on the ACT, 1260 or higher on the SAT, or 84 or higher on the CLT. However, they must meet the requirements at the end of their freshman year in order to stay in the program.

A liberal arts committee made up of one faculty member from each area of the core will decide if a student will be granted entry into the program. The appropriate faculty member in each area of the core will serve as the academic advisor. The chair of the liberal arts committee will sign as department Chair on all forms.

The liberal arts committee will approve all programs decided on by the student and the advisor. The proposed program must be approved by the end of the sophomore year.

Students must include a study abroad component of at least six weeks within their four years of study. A summer travel study experience would satisfy this requirement.

Course requirements involve 70 hours, including:

| | |
|--|--------------|
| LART-1000 Introduction to Liberal Arts | 1 |
| LART-4940 Senior Research Methodology..... | 1 |
| *LART-4950 Senior Project | 2 |
| Foreign Language through Intermediate Level | 6–15 |
| Core requirements..... | 30–39 |
| Humanities requirements (English, Literature) | 6 |
| Fine Arts requirements (Art, Music, Theatre) | 6 |
| Social Science and History requirements (History, Political Science, Sociology)..... | 6 |
| Science and Mathematics..... | 6 |
| Theology and Philosophy (at least one course in Philosophy)..... | 6 |
| Concentration requirements..... | 21 |
| 3000- and 4000-level courses chosen within one of the five core requirement divisions. | |

*Capstone Course

Liberal Arts Major Curriculum Summary:

| | |
|---|------------|
| Proficiency Requirements | 0–4 |
| 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 26.

Suggested Four-Year Curriculum for a Major in Liberal Arts

First Year:

| | |
|--|-------------|
| BTGE-1725 The Bible and the Gospel | 3 |
| COM-1100 Fundamentals of Speech..... | 3 |
| ENG-1400 Composition | 3 |
| HUM-1400 Introduction to the Humanities..... | 3 |
| LART-1000 Introduction to Liberal Arts | 1 |
| LIT-2XXX Literature Elective | 3 |
| PEF-1990 Physical Activity and Healthy Living..... | 2 |
| Biology Elective | 3.5 |
| History Elective..... | 3 |
| Humanities Elective | 3 |
| Quantitative Elective | 3 |
| Total | 30.5 |

Second Year:

| | |
|--|-------------|
| BTGE-2730 Old Testament Literature..... | 3 |
| BTGE-2740 New Testament Literature | 3 |
| Elementary Foreign Language | 0–8 |
| Core Requirement | 15–23 |
| Physical Science Elective | 3.5 |
| Total | 32.5 |

Third Year:

| | |
|---|-----------|
| BTGE-3755 Theology I | 3 |
| GSS-1100 Politics and American Culture..... | 3 |
| Core Requirements..... | 15–16 |
| Intermediate Foreign Language..... | 6–7 |
| Social Science Elective | 3 |
| Total | 31 |

Fourth Year:

| | |
|---|-----------|
| BTGE-3765 Theology II | 3 |
| LART-4940 Senior Research Methodology | 1 |
| LART-4950 Senior Project | 2 |
| Concentration Requirements | 21 |
| Electives | 7 |
| Total | 34 |





Course Descriptions

| | | | |
|--|-----|--|-----|
| Accounting (ACCT)..... | 218 | German (GER) | 264 |
| Adolescent / Young Adult Education (EDSE) | 245 | History (HIST) | 266 |
| Air Force ROTC (AES) | 218 | Honors (HON) | 269 |
| Allied Health (ALHL) | 219 | Humanities (HUM) | 269 |
| Anthropology (ANTH) | 219 | Industrial and Innovative Design (IDES) | 269 |
| Arabic Language (ARBC) | 219 | Information Technology Management (ITM) | 271 |
| Army ROTC (MIL) | 281 | International Studies (INTL) | 270 |
| Art (ART) | 219 | Journalism (JOUR) | 272 |
| Bible and Theology: Applied Theology (BTAT) | 225 | Keyboard Pedagogy (KPMU) | 274 |
| Bible and Theology: Christian Ministry (BTCM) | 228 | Korean (KOR) | 274 |
| Bible and Theology: Biblical Languages (BTBL) | 227 | Liberal Arts (LART) | 274 |
| Bible and Theology: Biblical Studies (BTBS) | 227 | Linguistics (LING) | 274 |
| Bible and Theology: General Education (BTGE) | 229 | Literature (LIT) | 275 |
| Bible and Theology: New Testament (BTNT) | 230 | Management (MGMT) | 280 |
| Bible and Theology: History and Theology (BTHT) | 229 | Marketing (MRKT) | 282 |
| Bible and Theology: Old Testament (BTOT) | 231 | Mathematics (MATH) | 278 |
| Bible and Theology: Philosophy and Apologetics (BTPA) | 231 | Mathematics Education (MTED) | 282 |
| Biology (BIO) | 221 | Mechanical Engineering (EGME) | 254 |
| Broadcasting, Digital Media, and Journalism (BRDM) | 223 | Middle Childhood Education (EDMC) | 243 |
| Business Administration (BUS) | 232 | Molecular Biology (MBIO) | 280 |
| Civil Engineering (EGCE) | 248 | Multi-Age Health Education (MAHE) | 277 |
| Creative Writing (CWRT) | 240 | Multi-Age Physical Education (MAPE) | 277 |
| College Studies (COLL) | 235 | Music Class Studies (CLMU) | 235 |
| Conducting (CDMU) | 233 | Music Education (MUED) | 283 |
| Communication Studies (COM) | 236 | Music History (HLMU) | 268 |
| Computer Engineering (EGCP) | 250 | Music Performance (PFMU) | 285 |
| Computer Science (CS) | 239 | Music Private Study (PLMU) | 287 |
| Criminal Justice (CRJU) | 238 | Music Technology (TYMU) | 301 |
| Chemistry: Major (CHEM) | 233 | Music Theory (THMU) | 297 |
| Chemistry: General Education (CHEM) | 233 | Nursing (NSG) | 283 |
| Chinese (CHN) | 235 | Prepharmacy (PPHR) | 289 |
| Cyber Operations (CY) | 241 | Primary (P–5) Education (EDEC) | 242 |
| Earth Science (ESCI) | 258 | Physical Education Activity Courses (PEA) | 285 |
| Economics (ECON) | 241 | Physical Education Fitness (PEF) | 285 |
| Education (EDUC) | 247 | Physics: General Education (PHYS) | 286 |
| Electrical Engineering (EGEE) | 251 | Physics: Major (PHYS) | 286 |
| English (ENG) | 256 | Political Science (POLS) | 287 |
| Environmental Science (ENVS) | 258 | Psychology (PYCH) | 290 |
| Entrepreneurship (ENTR) | 257 | Public Administration (PUAD) | 289 |
| Exercise and Sport Science (ESS) | 259 | Science Education (SCED) | 292 |
| Exercise and Sport Science Education (ESED) | 259 | Social Studies Education (SSED) | 295 |
| Exercise and Sport Science Elective (ESSE) | 259 | Sociology (SOC) | 293 |
| Exercise Science (EXSC) | 259 | Songwriting (SWMU) | 297 |
| Film (FILM) | 260 | Spanish (SPAN) | 294 |
| Finance (FIN) | 260 | Sport Management (SMGT) | 292 |
| Forensic Science (FORS) | 261 | Special Education (EDSP) | 245 |
| French (FREN) | 261 | Social Work (SWK) | 295 |
| General Biology (GBIO) | 262 | Professional Writing and Information Design (PWID) | 289 |
| General Engineering (EGGN) | 253 | Theatre (THTR) | 298 |
| General Mathematics (GMTH) | 264 | Visual Communication Design (VCD) | 301 |
| General Music (GMUS) | 265 | Worship (WSHP) | 302 |

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: 2021–22 is an odd year.

Accounting (ACCT)
ACCT-2110 Principles of Accounting I–Fa, Sp **3 hours**

An introduction to accounting for business organizations with an emphasis on financial statement preparation and interpretation. Topics include the accounting cycle, present value, and accounting for stock and debt instruments. *Prerequisite: Sophomore status.*

ACCT-2120 Principles of Accounting II–Fa, Sp **3 hours**

A continuation of accounting for business organizations. Topics include cash flow statements, investments, and managerial accounting concepts. *Prerequisite: ACCT-2110 Principles of Accounting I.*

ACCT-3110 Intermediate Financial Accounting I–Fa **3 hours**

Theoretical concepts and accounting standards that form the basis for accounting practices, financial statement preparation, and analysis. Topics include financial statement formats, present value, and accounting for receivables and inventory. *Prerequisite: ACCT-2120 Principles of Accounting II.*

ACCT-3120 Intermediate Financial Accounting II–Sp **3 hours**

Continuation of theoretical concepts and accounting standards that form the basis for accounting practices and financial statement preparation and analysis. Topics include: accounting for fixed assets, intangible assets, current liabilities, long-term debt, and stockholders' equity. *Prerequisite: ACCT-3110 Intermediate Financial Accounting I.*

ACCT-3150 Accounting Information Systems–Fa **3 hours**

A study of the flow of information through the accounting system, emphasizing systems analysis and design, internal controls, and computer applications in the business environment. *Prerequisites: ACCT-2120 Principles of Accounting II; Junior status.*

ACCT-3170 Managerial Accounting–Fa **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-3410 Topics in Accounting–Fa, Sp, Su **1–3 hours**

A variety of topics are covered under this heading on an experimental basis. This allows the department to meet the changing needs of the students without formally adding or dropping courses.

ACCT-4110 Federal Income Taxes–Fa **3 hours**

Examines the computation of federal income tax liabilities for individuals and sole proprietorships. Typical course content includes income, exclusions, exemptions, deductions, credits, property transactions, and tax accounting methods. Introduces basic principles of tax research and planning. *Prerequisite: ACCT-2120 Principles of Accounting II.*

ACCT-4120 Auditing–Sp **3 hours**

A study of auditing standards and related auditing procedures. Topics include evaluation of audit evidence, professional responsibilities, and auditors' reports and opinions. *Prerequisite: ACCT-3110 Intermediate Financial Accounting I.*

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-3110 Intermediate Financial Accounting I.*

ACCT-4150 Government and Nonprofit Accounting–Fa **3 hours**

Accounting and reporting principles, standards, and procedures applicable to nonprofit organizations. *Prerequisite: ACCT-3120 Intermediate Financial Accounting II or permission of instructor.*

ACCT-4170 Advanced Managerial Accounting–Sp **3 hours**

Advanced topics in accounting for manufacturing companies and the use of the computer in cost accounting applications.

Prerequisite: ACCT-3170 Managerial Accounting.

ACCT-4210 Taxation of Business Entities–Sp **3 hours**

An examination of the tax provisions governing C Corps, S Corps, partnerships, and estates. Analyzes international and multi-state taxation of corporations. *Prerequisite: ACCT-4110 Federal Income Taxes.*

ACCT-4220 International Accounting–Upon Demand **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.*

Air Force ROTC (AES)

Air Force ROTC courses are offered through Cedarville University in collaboration with the Air Force ROTC detachment located at Wright State University. While Air Force ROTC courses are included in the Cedarville University course schedule for registration purposes, leadership laboratories and classes are usually conducted on the campus of Wright State University. Cedarville University provides transportation for off-site classes.

AES-1210,1220 **1 hour/sem**
Foundations of the United States Force I (Fa) and II (Sp)

(AS 100) These courses are survey courses designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the Air Force.

AES-1211/1221 **0 hours**
General Military Course (GMC) Leadership Laboratory–Fa, Sp

This lab provides an opportunity for students to apply Air Force procedures, techniques, and knowledge. Students will learn the Air Force organizational structure as well as customs and courtesies. GMC cadets will also develop their followership and teamwork skills in a cadet-led, cadre-supervised lab environment. Taken concurrently with 1000-level AES courses. Credit/no credit.

AES-2210,2220 **1 hour/sem**
Evolution of USAF Air and Space Power I (Fa) and II (Sp)

(AS 200) These courses feature topics on Air Force heritage and leaders; introduction to air power through examination of the Air Force Core Functions; and continued application of communication skills. Its purpose is to instill an appreciation of the development and employment of air power and to motivate sophomore students to transition from AFROTC cadet to AFROTC officer candidate.

AES-2211/2221 **0 hours**
Field Training Preparation Leadership Lab (FTP)–Fa, Sp

This lab further develops skills and concepts introduced in the GMC Leadership Laboratory. Students are prepared mentally and physically for the demanding requirements of the upcoming Field Training summer program. Training is cadet-led, where the students will display their ability to apply Air Force concepts and procedures. Taken concurrently with 2000-level AES courses. Credit/no credit.

AES-2500 Extended GMC Leadership Laboratory **0 hours**

This course is for cadets who have met the requirements of GMC but have not yet completed field training.



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| AES-3310,3320 | 3 hours/sem | Anthropology (ANTH) |
| United States Air Force Leadership Studies I (Fa) and II (Sp) | | ANTH-1800 Cultural Anthropology–Fa, Sp 3 hours |
| (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. | | 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. |
| AES-3311/3321 | 0 hours | ANTH-4940 1–3 hours |
| Intermediate Cadet Leadership Laboratory (ICL)–Fa, Sp | | Independent Study in Anthropology |
| 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. | | 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. <i>Prerequisite: Permission of the instructor.</i> |
| AES-4310,4320 | 3 hours/sem | Arabic Language (ARBC) |
| National Security Affairs/Preparation for Active Duty I (Fa) and II (Sp) | | ARBC-1400 3 hours |
| (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. | | Introduction to Arabic Language and Culture |
| AES-4311/4321 | 0 hours | 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. <i>This course satisfies the global awareness course requirement.</i> |
| Senior Cadet Leadership (SCL) Laboratory–Fa, Sp | | ARBC-1410 Elementary Arabic I–Fa 4 hours |
| 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. | | Development of basic skills in reading, writing, speaking, and listening in Arabic, along with an introduction to Arabic culture. |
| AES-4500 Extended POC Leadership Laboratory | 0 hours | ARBC-1420 Elementary Arabic II–Sp 4 hours |
| This course is for cadets who have met all requirements for Air Force ROTC but have not yet completed their baccalaureate degree. | | Development of basic skills in reading, writing, speaking, and listening in Arabic, along with an introduction to Arabic culture. <i>Prerequisites: ARBC-1410 Elementary Arabic I, instructor's approval, or placement by exam.</i> |
| 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. | | ARBC-2410 Intermediate Arabic I–Fa 4 hours |
| 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. | | Development of all four language skills through grammar review, composition, conversation, and readings in Arabic literature and culture. <i>Prerequisites: ARBC-1410 Elementary Arabic I and ARBC-1420 Elementary Arabic II, instructor's approval, or placement by exam.</i> |
| Allied Health (ALHL) | | ARBC-2420 Intermediate Arabic II–Sp 3 hours |
| ALHL-1000 | 1 hour | Development of all four language skills through grammar review, composition, conversation, and readings in Arabic literature and culture. <i>Prerequisites: ARBC-1410 Elementary Arabic I, ARBC-1420 Elementary Arabic II, ARBC-2410 Intermediate Arabic I, instructor's approval, or placement by exam.</i> |
| Introduction to the Allied Health Professions–Fa | | ARBC-3500 1–3 hours |
| 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. | | Independent Study in Arabic Language and Culture–Fa, Sp |
| ALHL-2000 Medical Terminology–Fa, Sp | 3 hours | This course gives opportunity for independent study in a particular area of Arabic language and culture for students who demonstrate special interests and ability. |
| An online course designed to familiarize students with the terminology of the health professions, including anatomy and physiology terms, medical diagnoses, procedures, and therapies. <i>Prerequisite: GBIO-2010 Human Anatomy and Physiology I; or BIO-3450 Human Structure and Function I.</i> | | Art (ART) |
| ALHL-3940 Professional Development–Sp | 2 hour | ART-1100 Introduction to Art–Fa 3 hours |
| 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. | | 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. |
| ALHL-4960 Senior Seminar–Fa, Sp | 1 hour | ART-1110 Drawing Foundations–Fa, Sp 3 hours |
| 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. <i>Prerequisite: EXSC-4600 Research Methods. (Fee: \$25)</i> | | Investigation of the visual language used in drawing. Students work with concepts of point, line, and plane definition to develop an awareness of the elements used to indicate form in a variety of media. (Fee: \$100) |
| | | ART-1230 Two-Dimensional Design–Fa, Sp 3 hours |
| | | An exploration of the visual elements and concepts of design utilizing a variety of media. <i>Prerequisites: ART-1100 Introduction to Art; ART-1110 Drawing Foundations (can be taken concurrently). (Fee: \$75)</i> |

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| ART-2110 Intermediate Drawing–Sp | 3 hours | ART-3160 Intermediate Sculpture–Fa | 3 hours |
| Further exploration of form, space, and mark making through a variety of drawing media. Particular attention will be given to the figure, as well as observing and rendering perspective. <i>Prerequisites: ART-1110 Drawing Foundations; ART-1230 Two-Dimensional Design.</i> (Fee: \$100) | | 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. <i>Prerequisite: ART-2160 Sculpture Foundations.</i> (Fee: \$300) | |
| ART-2130 Painting Foundations–Fa | 3 hours | ART-3170 Intermediate Printmaking–Fa | 3 hours |
| An introduction to oil painting, emphasizing the perception and use of light and color in accurately representing form and space. <i>Prerequisites: ART-1110 Drawing Foundations; ART-1230 Two-Dimensional Design.</i> (Fee: \$150) | | 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. <i>Prerequisites: ART-2110 Intermediate Drawing; ART-2170 Printmaking Foundations.</i> (Fee: \$250) | |
| ART-2140 Ceramics Foundations–Fa, Sp | 3 hours | ART-3230 Watercolor–Sp | 3 hours |
| This course will provide students with an introduction to clay from construction to finished fired pieces. Students will build forms using basic hand-building techniques and the potter's wheel. Surface decoration will be emphasized using color, texture, and glazes. <i>Prerequisite: ART-1100 Introduction to Art.</i> (Fee: \$175) | | A location painting watercolor course for students who have had drawing instruction and who have a basic understanding of composition and color theory. <i>Prerequisites: ART-1110 Drawing Foundations; ART-1230 Two-Dimensional Design; or by portfolio.</i> (Fee: \$180) | |
| ART-2160 Sculpture Foundations–Sp | 3 hours | ART-3250 Studio Photography–Fa | 3 hours |
| An introduction to traditional and nontraditional processes of sculpture while accumulating in-depth techniques and skills in a variety of sculpture materials and practices. This class will emphasize creative effort, development of individual expression, and the utilization of technical processes. <i>Prerequisites: ART-1230 Two-Dimensional Design; ART-2230 Three-Dimensional Design.</i> (Fee: \$300) | | 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. <i>Prerequisites: ART-2250 Creative Photography or permission of instructor.</i> (Fee: \$200) | |
| ART-2170 Printmaking Foundations–Fa | 3 hours | ART-3310 Art History I–Fa | 3 hours |
| An introduction to intaglio and relief printmaking processes. <i>Prerequisite: ART-1230 Two-Dimensional Design.</i> (Fee: \$250) | | Survey of the development of western art and architecture from the ancient world through the early renaissance. | |
| ART-2230 Three-Dimensional Design–Fa, Sp | 3 hours | ART-3320 Art History II–Sp | 3 hours |
| Application of principles of design and visual organization with emphasis on volume, mass, and rendering forms in space. <i>Prerequisites: ART-1100 Introduction to Art, ART-1110 Drawing Foundations; ART-1230 Two-Dimensional Design.</i> (Fee: \$175) | | 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. <i>Prerequisite: ART-3310 Art History I.</i> | |
| ART-2250 Creative Photography–Fa, Sp | 3 hours | ART-4130 Advanced Painting–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) | | 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. <i>Prerequisites: ART-2130 Painting Foundations; ART-3130 Intermediate Painting.</i> Repeatable up to two times. (Fee: \$100) | |
| ART-3110 Advanced Drawing–Sp | 3 hours | ART-4140 Advanced Ceramics–Sp | 3 hours |
| This course allows the studio art major an opportunity to explore a particular studio discipline or may be a continuation of work completed in previous studio courses, allowing the student a concentration in that particular discipline. <i>Prerequisites: ART-1110 Drawing Foundations; ART-1230 Two-Dimensional Design; ART-2110 Intermediate Drawing.</i> Repeatable up to two times. (Fee: \$100) | | In this course, students will develop expertise in ceramic methods of hand-building and/or wheel-throwing, with an emphasis on perfecting the skill sets already developed. Additionally, students will establish personal artistic statements manifested through a conceptually unified body of work expressed in clay. <i>Prerequisites: ART-2140 Ceramics Foundations; ART-3140 Intermediate Ceramics.</i> Repeatable up to two times. (Fee: \$175) | |
| ART-3130 Intermediate Painting–Sp | 3 hours | ART-4160 Advanced Sculpture–Fa, 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. <i>Prerequisite: ART-2130 Painting Foundations.</i> (Fee: \$150) | | 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. <i>Prerequisite: ART-3160 Intermediate Sculpture.</i> (Fee: \$300) Repeatable up to two times. | |
| ART-3140 Intermediate Ceramics–Fa, Sp | 3 hours | | |
| In this course students will expand and refine existing hand-building and/or wheel-throwing techniques. In addition to developing a deeper and broader set of technical skills, students will develop their ideas and learn to articulate them through clay. Students will demonstrate comfort and proficiency in the operation of the ceramics studio equipment and in the physical processes of building, glazing and firing clay. <i>Prerequisites: ART-2140 Ceramics Foundations.</i> (Fee: \$175). | | | |



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. Repeatable up to two times (Fee: \$300)

ART-4300 Art Exhibition–Sp 3 hours

Designed to provide the student a hands-on experience in mounting an art exhibition. Topics include archival matting and framing, lighting, and hanging techniques, as well as publicity and signage. Studio work is a requirement to balance a portfolio of work for a senior exhibition. Capstone course. *Prerequisite: Senior studio art major status. (Fee: \$50)*

ART-4400 20th Century Art–Sp 3 hours

Investigation of the development of 20th century art history from Post-Impressionism to the present. Particular attention to the underlying worldviews and changes in media. Classroom lectures are supplemented with student research, critique, and museum studies. (odd years)

ART-4440 Installation Art–Fa 3 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-4900 Studio Art Internship–Fa, Sp, Su 0–6 hours

The studio art internship will give the student an opportunity to gain hands-on, experiential learning with professionals in the studio art field. This experience will provide students firsthand exposure and insights into professional and practical work, industry attitudes and approaches, and career path options within the field. Students will learn from and work with experienced artists, participate in art-related settings, and gain insights for establishing goals for an artistic career. Credit/no credit.

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–Fa, Sp, Su 1–3 hours

Independent and intensive study in a particular area of art for individual students who demonstrate special interests and ability. (Fee: \$60 per credit hour)

Athletic Training (ATRN)

ATRN-1300 Emergency Care–Fa 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 hour

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-3500 Principles of Sport Medicine 3 hours

An overview of the allied health profession known as athletic training. This course focuses on the principles of prevention, recognition, management and basic rehabilitation of sport-related injuries. Relevant topics include physical conditioning, evaluation and injury cycle.

Students will be broken up into teams. Content will be organized into weekly modules, in which students will complete their reading, take team quizzes in class, participate in group projects, and demonstrate competency in basic athletic training skills during LABs through practical assignments. *Prerequisites: ATRN-1500 Introduction to Athletic Training; ATRN-1300 Emergency Care. (Fee: \$25)*

ATRN-4500 Senior Sport Medicine Capstone 2 hours

Designed for the student to demonstrate the ability to integrate the knowledge, skills and attitudes developed throughout their course of study in a final project (such as a research project and presentation) or experience (such as an internship of at least 80 clock hours). The student's academic advisor and the dean of the school must approve the project or experience based on a written proposal developed and submitted by the student prior to registering for the course. (Details for what must be included in the proposal are available in the course syllabus). *Prerequisite: permission of the dean.*

Biology (BIO)

BIO-1110 Introduction to Biology–Fa 4 hours

Structure and function of plant and animal cells with emphasis in central concepts. This is the first biology course for majors, open to others with high school biology and chemistry backgrounds. Three lectures and one 2-hour laboratory per week. (Fee: \$100)

BIO-1115 Biology I: Cell Biology–Fa, Sp 4 hours

The first of a two-semester sequence that prepares students for advanced biology courses and related fields. Includes an introduction to the nature of science, cellular chemistry, cellular structure and function, energy and metabolism, and genetics. (Fee: \$100)

BIO-1120 Biology II: Zoology–Sp 4 hours

The second of a two-semester sequence that prepares students for advanced biology courses and related fields. Includes an integrative study of the diversity of organisms that make up the animal kingdom, an introduction to the protista kingdom, and natural selection. Morphology, physiology, and ecology of the major phyla will be integrated with the continuities and discontinuities among animal taxa. *Prerequisite: BIO-1115 Biology I: Cell Biology. (Fee: \$100)*

BIO-2210 Microbiology–Sp 4 hours

A study of the characteristics, culture, and control of bacteria, viruses, and fungi. A major emphasis is placed on microorganisms and disease, with some coverage of industrial and environmental topics. Laboratory techniques are emphasized. Three lectures and two 80-minute laboratories per week. *Prerequisite: CHEM-1000 Principles of Chemistry, or CHEM-1050 Chemistry for Engineers, or CHEM-1110 General Chemistry I. (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. *Prerequisite: BIO-1115 Biology I: Cell Biology. (Fee: \$100)*

BIO-2600 General Ecology–Sp 4 hours

A study of the relationships among organisms and with their physical environment. Basic principles of ecological and evolutionary theory will provide insights about organismal adaptation, spatiotemporal scaling of systems, biogeochemistry, and biogeography. Environmental ethics and biblical stewardship principles will be evaluated as we encounter and consider environmental challenges (e.g. water, disease, climate change, and biodiversity loss). *Prerequisites: BIO-2500 General Botany; two semesters of biology, or permission of the instructor (Fee: \$100)*

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| BIO-3200 Advanced Ecology –Fa | 3 hours | BIO-3520 Plant Taxonomy –Sp | 3 hours |
| An advanced study of fundamental concepts of ecology across the organizational hierarchy from gene to globe. Emphasis will be placed on the topics of biodiversity, biogeography, biogeochemistry, evolution, and conservation with respect to a biblical environmental stewardship ethic in the face of global environmental change. Two hours lecture and one two-hour lab per week. Course includes a travel study experience to the Indiana Dunes National Lakeshore. Crosslist with ENVS-3200. | | 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. <i>Prerequisite: BIO-2500 General Botany.</i> (Fee: \$100) (even years) | |
| <i>Prerequisites: BIO-2600 General Ecology or permission of the instructor.</i> (Fee: \$100) | | BIO-3530 Agricultural Science –Sp | 3 hours |
| BIO-3300 Genetics –Fa | 4 hours | A study of soil, plant, and animal systems in modern agricultural production and management. Emphasis will be placed on genetic improvement, nutrition, growth and development, resource management, and agricultural products in the global marketplace. | |
| 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. <i>Prerequisite: BIO-1115 Biology I: Cell Biology.</i> (Fee: \$100) | | <i>Prerequisites: BIO-1120 Biology II: Zoology; BIO-2500 General Botany; BIO-2600 General Ecology.</i> (Fee: \$100) (odd years) | |
| BIO-3410 Parasitology and Invertebrate Zoology –Fa | 3 hours | BIO-3600 Environmental Ethics –Sp | 3 hours |
| This course provides an overview of the invertebrate parasites commonly found in domestic animals, wildlife and humans. Also included in the course is the role of invertebrates in ecological monitoring. An integrative approach to invertebrate taxonomy, ecology, morphology and physiology is presented. Field collecting is used to learn the principles of classification and to study local biodiversity. <i>Prerequisite: BIO-1120 Biology II: Zoology.</i> (Fee: \$100) (even years) | | 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. <i>Prerequisites: One semester of biology; junior status; permission of instructor.</i> (odd years) | |
| BIO-3420 Comparative Vertebrate Anatomy and Physiology –Sp | 4 hours | BIOA-3600 Topics in Environmental Biology –Sp, Su | 4 hours |
| This course provides an investigation of the diversity among the vertebrate classes with an emphasis on mammals. The anatomy and physiology of the vertebrate body systems are examined to understand the continuity and discontinuity present within and among the groups. Three lectures and one three-hour laboratory per week. <i>Prerequisite: BIO-1120 Biology II: Zoology.</i> (Fee: \$100) | | 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. <i>Prerequisite: acceptance to attend Au Sable Institute.</i> | |
| BIO-3430 Conservation Biology for Wildlife and Zoos –Fa | 3 hours | BIO-3610 Ecophysiology –Fa | 3 hours |
| This course will engage in an exploration of the theories and practices of conservation biology for wildlife and zoos. The class will address stewardship through the study of population dynamics, public policy, ethics of conservation, spatial distribution and analysis, habitat, biodiversity, and other current issues in the field. Students will also learn to identify birds and amphibians. <i>Prerequisites: BIO-1120 Biology II: Zoology; BIO-2500 General Botany; BIO-2600 General Ecology.</i> (even years) (Fee: \$100) | | A study of the physiological characteristics of organisms that permit them to be successful in various environmental conditions. This course includes both field and laboratory studies focusing on both warm and cold environments, and covers material from cells to ecosystems. Two lectures and one three-hour laboratory per week. <i>Prerequisites: BIO-1120 Biology II: Zoology; BIO-2500 General Botany; BIO-2600 General Ecology.</i> (odd years) (Fee: \$100) | |
| BIO-3450 Human Structure and Function I –Fa | 4 hours | BIO-3710 Biochemistry –Sp | 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. Three lectures and one three-hour laboratory per week. <i>Prerequisite: BIO-1115 Biology I: Cell Biology.</i> (Fee: \$100) | | 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. <i>Prerequisites: BIO-1115 Biology I: Cell Biology; CHEM-3510 Organic Chemistry I.</i> (Fee: \$150) | |
| BIO-3460 Human Structure and Function II –Sp | 4 hours | BIO-3800 Biological Research –Fa, Sp | 2 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. <i>Prerequisite: BIO-3450 Human Structure and Function I.</i> (Fee: \$100) | | 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. <i>Prerequisites: Sophomore status; permission of instructor.</i> (Fee: \$150) | |
| 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. <i>Prerequisite: BIO-2500 General Botany.</i> (Fee: \$100) (odd years) | | | |



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: Sophomore status.*

BIO-4350 Immunology–Fa 4 hours

Study of the human immune system, including descriptions of basic immunological phenomena, biochemistry of antibodies and antigens, the cellular and genetic components of the immune response, and immunopathology. Students will also learn immunological techniques commonly used in clinical and research applications. Three lectures, one two-hour lab per week. *Prerequisite or Corequisite: BIO-3300 Genetics. (Fee: \$100)*

BIO-4360 Infectious Diseases–Sp 3 hours

This course will cover key concepts that relate to the emergence, the spread, and the control of infectious disease epidemics, including history of infectious diseases, basic concepts of microbial biology, taxonomy, antimicrobials, introduction to infection and immunity, bacterial/viral/fungal/parasitic pathogens and associated diseases, and diagnosis/treatment/control of infectious diseases. The future of infectious diseases including evolution of virulence, emergence of drug resistance, and eradication of diseases will also be addressed. *Prerequisites: BIO-3300 Genetics; or GBIO-3350 Principles of Immunology. (odd years)*

BIO-4450 Introduction to Human Gross Anatomy–Fa, Sp 2 hours

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-3460 Human Structure and Function II; and permission of instructor. (Fee: \$200)*

BIO-4800 Senior Seminar–Biology–Fa, Sp 1 hour

In this capstone course required of all senior biology majors, students compile data from laboratory, field study, or extensive literature research and give an oral presentation. Approval of the topic must be given by the student's academic advisor. The student must also attend a minimum of 10 seminars during the senior year. *Prerequisites: Senior status; attendance of a minimum of 10 seminars prior to the senior year.*

BIO-4880 Topics in Biology 1–3 hours

Topics of special interest by the biology faculty from the areas of modern biology. *Prerequisites: Junior status; permission of instructor.*

BIO-4900 Independent Study: Biology–Fa, Sp 1–3 hours

Supervised independent study of a particular biological phenomenon. Submission and approval of a research proposal must precede registration. *Prerequisites: Major in biology; permission of advisor.*

BIO-4910 Environmental Biology Internship–Fa, Sp 3–4 hours

An opportunity to participate in an internship experience involving research projects with field biologists, ecologists, environmental health scientists, or environmental educators, depending upon the student's vocational preference. Involves department faculty or faculty in conjunction with local or state agencies or private institutions. Provides practical experience in field biology and ecology techniques related to habitat characterization, monitoring, management, and restoration.

Prerequisites: BIO-1120 Biology II: Zoology; BIO-2500 General Botany, BIO-2600 General Ecology; permission of instructor. (Fee: \$25)

Broadcasting, Digital Media, and Journalism (BRDM)

BRDM-1110 Introduction to Broadcasting and Digital Media–Fa 3 hours

A survey of electronic media, including history and development, types, audience research, regulations, and globalization.

BRDM-1120 Audio Production–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: \$75)

BRDM-2110 Video Production–Sp 3 hours

This course provides hands-on training for digital video production, including camera, lighting, audio, and editing. The student will learn basic production and post-production skills and terms. (Fee: \$75)

BRDM-2130 Writing for Digital Media–Fa 3 hours

This course covers the form and style of writing for radio, television, film, and interactive media. Students will learn the basics of narrative structure for these media as well as basic formatting and style guidelines.

BRDM-2210 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) (even 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 Production. (Fee: \$75)*

BRDM-2320 Preproduction and Planning for Video and Film–Fa, Sp 3 hours

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: \$75)

BRDM-2350 Introduction to Motion Design–Fa 3 hours

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).

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| BRDM-2606 | 2 hours | BRDM-3355 VFX and Compositing for TV and Film–Fa 3 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: \$75) |
| BRDM-2650 Introduction to Web Analytics and SEO–Fa 1 hour | | The course is a survey of methods for gathering and interpreting online tracking and usage data. The survey will focus on the Google Analytics platform but also cover basics of SEO for websites, apps, and online media content. |
| BRDM-2810 Sophomore Seminar–Fa | 1 hour | The sophomore seminar in Broadcasting, Digital Media, and Journalism is designed to acquaint students with current trends in the electronic media and to aid students in understanding key concepts for building a successful career including networking, professional development, résumé and portfolio development, and strategies for career entry in the electronic media field. <i>Prerequisite: BRDM-1110 Introduction to Broadcasting and Digital Media.</i> |
| BRDM-3150 Media Ethics–Fa | 3 hours | Development of an applied theistic ethic for media practitioners. Topics for ethical examination include media content, business practices, advertising, journalism, privacy, and intellectual property rights. Crosslisted with JOUR-3150. <i>Prerequisite: Junior or Senior status.</i> |
| 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. <i>Prerequisite: BRDM-1120 Audio Production.</i> (Fee: \$75) |
| BRDM-3215 Live Sound–Fa | 3 hours | This course will prepare the student for work in live sound for churches and other venues. Through a series of lectures and labs, students will learn how to set up and operate a PA systems, operate mixers/consoles/control surfaces, trouble shoot problems in audio set-up, mix live sound, complete stage set-up, and the selection of microphones, amps, mixers, speakers and monitors. <i>Prerequisite: BRDM-1120 Audio Production.</i> (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. <i>Prerequisites: BRDM-1120 Audio Production and BRDM-3210 Digital Audio Post Production.</i> (Fee: \$45) (odd years) |
| BRDM-3310 Digital Film Production–Fa | 3 hours | Taught from the producer's perspective, this course offers hands-on training for students in creating short narrative films and overseeing the pre-production, production, and post-production stages. <i>Prerequisite: BRDM-2110 Video Production.</i> (Fee: \$45) |
| BRDM-3330 Screenwriting–Sp | 4 hours | In this advanced writing course, students will learn the formal construction involved in writing a professional screenplay, with emphasis on narrative structure, dramatic writing, and strong character development. <i>Prerequisite: BRDM-2130 Writing for Digital Media or approval from the instructor.</i> (Fee: \$45) (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: \$75) (even years) |
| 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. <i>Prerequisite: BRDM-2110 Video Production.</i> (Fee: \$75) (odd years) |
| BRDM-3390 Editing Theory and Practice–Fa | 3 hours | In this course, students will learn terminology and techniques related to video editing and post-production, including assembly, file organization, and aesthetic approaches to how visual storytelling in film and video extends to the editing process. <i>Prerequisite: BRDM-2110 Video Production</i> (Fee: \$75) |
| BRDM-3410 Broadcasting and Media Sales–Sp | 3 hours | The course focuses on developing an understanding of the theory and practice of the sale of advertising for a variety of electronic media. Students will study and apply client and product research, advertising strategies, sales technique, and presentational methods. Sales executives work with the class to develop the knowledge and skills described above and to help them select and work with a media client to develop an advertising campaign. |
| BRDM-3420 Media Management–Fa | 3 hours | This course is designed to acquaint the student with the concerns facing the management of a media company including legal requirements of the FCC, personnel management, implementation of programming, and station acquisition. |
| BRDM-3605 | 3 hours | |
| Writing and Design for Web and Mobile Media–Sp | | The purpose of this course is to introduce students to the special design and writing necessary for emerging new media, including the web, mobile media, and social networking sites and services. (Fee: \$50) |
| 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 consumer-centric strategic analysis called Key Insights Analysis which has as its goal delivery of actionable insights and matrices for website developers. (Fee: \$15) |
| 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. <i>Prerequisite: BRDM-2606 Introduction to Computer Animation or approval from the instructor.</i> (Fee: \$50) |
| 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. <i>Prerequisite: Junior or Senior status.</i> (Fee: \$10) |
| BRDM-3720 Audio Production Practicum–Fa, Sp | 1 hour | The practicum is designed to place the student in a variety of professional settings on and off campus, with the purpose of allowing the student to practice audio skills acquired in earlier courses. The course is repeatable for a total of two hours. <i>Prerequisites: BRDM-1110 Introduction to Broadcasting and Digital Media; BRDM-1120 Audio Production.</i> (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: \$75)

BRDM-3735 Film/Video Practicum–Fa, Sp 1 hour

This practicum provides students opportunities to work on video projects throughout the semester, either for themselves or for clients. Students are responsible for selecting the projects they work on for practicum hours, which will be monitored and approved by the instructor. *Prerequisite: BRDM-2110 Video Production.* (Fee: \$75)

BRDM-3741 Sales and Management Practicum–Fa, Sp 1 hour

The practicum is designed to place the student in a variety of professional settings on and off campus, with the purpose of allowing the student to observe and practice sales and management skills acquired in earlier courses. The course is repeatable for a total of three hours. *Prerequisites: BRDM-3410 Electronic Media Sales; BRDM-3420 Media Management; Junior or Senior status; permission of the instructor.*

BRDM-3765 Animation Practicum–Fa, Sp 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. *Prerequisite: BRDM-2606 Introduction to Computer Animation or approval from the instructor.* (Fee: \$25)

BRDM-4110 Digital 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. *Prerequisite: Junior or Senior status.*

BRDM-4310 Cinematography Theory and Practice–Sp 3 hours

Taught from the director's perspective, this course teaches advanced visual storytelling techniques for film and video production involving camera, lighting, and post-production techniques such as color grading. *Prerequisite: BRDM-3310 Digital Film Production.* (Fee: \$75)

BRDM-4320 Directing the Narrative Film–Sp 3 hours

Building on techniques of video production and direction that have been introduced in previous courses, students will spend the semester creating and directing a narrative short film and seeing it through the various stages of production. *Prerequisites: BRDM-3310 Digital Film Production; or approval from the instructor; Junior or Senior status. (even years)* (Fee: \$75)

BRDM-4650 Designing Solutions for New Audiences–Sp 3 hours

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. *Prerequisite: BRDM/JOUR-3650 Networked Audience.*

BRDM-4700 Special Topics in Electronic Media–Fa, Sp 3 hours

Available to advanced students who desire intense study in special areas of electronic media. *Prerequisites: Junior or Senior status as an broadcasting and digital media major; permission of the faculty mentor.*

BRDM-4710 Independent Study: Digital Media 1–3 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 1 hour

The course is designed to help the student transition from the college to professional world. Students will interact with professionals to network and to focus on developing résumés and portfolios, interviewing skills, and an understanding of business etiquette. *Prerequisite: Senior status as broadcasting, digital media, and journalism major.* (Fee: \$45)

BRDM-4920 Senior Project 3 hours

The student selects one of two options: 1) a paper reporting on the student's original research that investigated a topic in electronic media or 2) a media production. A proposal detailing the student's plan for the senior project must be submitted and approved by the faculty mentor prior to registration for the course. Capstone course. *Prerequisites: GPA of 3.0 in major courses; Senior status; permission of BRDM faculty.* (Fee: \$35)

BRDM-4930 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 for the experience. Internships depend upon availability and approval by the media faculty. Capstone course. *Prerequisites: GPA of 3.0 in major courses; Junior or Senior status; approval by the electronic media faculty.*

Bible and Theology: Applied Theology (BTAT)

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 Introduction to Evangelism–Fa, Sp 3 hours

An introductory study of the biblical concepts for evangelism. The course will survey a brief overview of the biblical Gospel; explore historic and current methods in evangelism; introduce the cultural, personal, or theological issues that could inhibit evangelism; and encourage personal witnessing encounters.

BTAT-2420 History of Mission–Fa 3 hours

Survey of the history of the expansion of the church from apostolic times to World War II with attention to differing conceptions of the mission task and the strategies and lessons that may be learned for mission today. (odd years)

BTAT-3200 Introduction to Missions: Theology and History–Fa, Sp 3 hours

An introduction to the biblical warrant for and theology of Christian missions. This course will also sketch the history of missions efforts from the early church to mid-20th century. Primarily the history will be told through the efforts of churches, representative missionaries, and missions boards and agencies. (dual-listed with BTAT-6200 Introduction to Missions: Theology and History)

BTAT-3250 Church Planting–Fa

3 hours

This course will expose students to the various stages of church planting including vision casting, planning, implementation, and reproduction. Likewise, it will present multiple approaches to church planting and church structure, culminating in a student project wherein students will create and present strategic two-year church planting plans targeting a specific location.

BTAT-3400 Biblical Care and Counseling–Fa, Sp

3 hours

An introduction to the historical context and theological foundations for counseling ministry. This course covers methods of change and basic counseling skills. It examines case studies, practices basic counseling skills in a discipleship relationship, and considers various ministry contexts. The course format includes lecture, video, and discussion. (dual-listed with BTAT-6110 Biblical Care and Counseling)

BTAT-3410 Discipleship–Fa, Sp

3 hours

Study of personal discipleship within a biblical framework, utilizing a variety of resources and practical experience. The model developed will be applicable in multiple contexts. (dual-listed with BTAT-6410 Discipleship)

BTAT-3420 Introduction to Pastoral Ministry–Sp

2 hours

This course provides broad overview of pastoral duties including presiding over weddings, funerals, and church services. In addition, such issues as the pastoral call, candidating, ordination, leadership, and family issues are also addressed. (odd years)

BTAT-3430 Interpersonal and Crisis Counseling–Sp

3 hours

Building upon a biblical and theological foundation for biblical care, discipleship, and counseling, this course provides intermediate and advanced principles and practices of interpersonal and crisis counseling. A biblical approach to common counseling problems involving both sin and suffering is addressed within Christian ministry. It also discusses the role of counseling in encouraging and cultivating spiritual growth through discipleship relationships and providing biblical life wisdom. *Prerequisites/Corequisites: BTAT-3400 Biblical and Counseling or permission of instructor. (dual-listed with BTAT-6130 Interpersonal and Crisis Counseling)*

BTAT-3450 Contemporary World Missions–Sp

3 hours

Study of the development, methods, and problems of Christian missions since World War II.

BTAT-3470 Cross-Cultural Ministry–Sp

3 hours

Understanding culture, basic methods in researching culture, becoming competent in another culture, cross-cultural communication, relevant to a mission ministry, and the practice of ministry contextualization.

BTAT-3480 Women's Communication for Ministry–Fa

3 hours

A course designed to help women refine communication skills that will help them to articulate their beliefs effectively and further develop communication platforms in the areas of giving a testimony, leading a discussion, and expositing Scripture for various age groups. *Prerequisite: BTGE-1725 The Bible and the Gospel. (dual-listed with BTAT-6480 Women's Communication for Ministry)*

BTAT-3500 Text-Driven Preaching 1–Sp

3 hours

Introductory course on the nature of preparing and delivering sermons shaped by Scripture's textual meaning. Emphasis is placed on moving from textual interpretation to skilled delivery to a contemporary audience. *Prerequisites: BTGE-1725 The Bible and the Gospel; BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature; or permission of the instructor. (dual-listed with BTAT-6500 Text-Driven Preaching 1)*

BTAT-3510 Introduction to Urban Missiology–Fa

3 hours

An introductory understanding of urban culture, basic methods in researching urban culture, becoming competent in living in an urban culture for the preparation of missions in an urban context. Attention will be given to ministry guided by biblical theology and acclimated to the sociological, anthropological, and multicultural factors in the urban environment in global cities.. (Fee: \$35)

BTAT-3560 Counseling and Mentoring Men–Sp

3 hours

In this course, the distinctive theological foundations and skills of biblical counseling will be examined and applied specifically to the ministry of mentoring and counseling men. Study will focus on the mandate and skills of leading men toward comprehensive maturity and counseling as it pertains to common life challenges for men in contemporary society. Crosslisted with BTCM. *Prerequisite: BTAT-3400 Biblical Care and Counseling; or permission of the instructor.*

BTAT-3730 Theology of Worship–Sp

3 hours

This course explores the theology, history, and practice of Christian worship, with particular attention to how worship practices both reflect and shape theological commitments. Various elements of Christian worship will be examined in light of diverse cultural contexts and theological perspectives with the goal of enabling the student to plan appropriately and to lead worship in a particular ministry setting. *Prerequisites: BTGE-1725 The Bible and the Gospel; BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature.*

BTAT-3840 Theology of Sexuality and Family–Fa

3 hours

A study of the key issues in biblical and systematic theology related to human sexuality, gender, marriage, and family. Emphasis will be given to central biblical texts for formation of doctrine, historical disputes, and contemporary challenges, such as homosexuality and transgenderism. Crosslisted as BTHT.

Prerequisite/Corequisite: BTGE-3755 Theology I. (odd years)

BTAT-3903 Theological Foundations of Human Life–Su

3 hours

Students will examine the theological concepts of the image of God, human value, and human rights. From a biblical perspective, students will review historical examples of Christian social reformation as an outworking of the gospel and world missions and the lessons applicable to the current pro-life movement.

BTAT-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 BTCM) (dual-listed with BTAT/BTCM-6300 Teaching Ministry of the Church)

BTAT-4510 Advanced Urban Ministry–Sp

3 hours

Continuation of the earlier Urban Ministry course, including global urban issues, particular challenges in world-class cities, sociology of the city, and its implications for mission in the city. *Prerequisite: BTAT-3510 Introduction to Urban Missiology. (odd years)(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

2–3 hours

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*

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| BTAT-4720 | 3–12 hours | BTBL-3620 | 3 hours |
| Cross-Cultural Missionary Internship —Fa, Sp, Su | | Biblical Hebrew Grammar and Syntax II —Sp | |
| Internship consisting of four to six weeks in a cross-cultural context gaining experience in acclimating to a cross-cultural surrounding and engaging in missions activity in that setting. Supervision is provided by School of Biblical and Theological Studies faculty and an approved missionary/pastor. This internship is open to students in various majors, with the approval of the faculty. <i>Prerequisites: BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature; two missions courses; approval of the SBTS faculty.</i> Repeatable up to 12 credit hours. | | Biblical Hebrew Grammar and Syntax II initially focuses on clause diagraming and then moves to syntax above the level of the clause. Students will work through the Hebrew text of a small book (e.g., Jonah, Ruth, etc.), acquiring skills for Hebrew exegesis. They will also develop a vocabulary of 1,000 words based on frequency. | |
| BTAT-4730 Pastoral Internship —Fa, Sp, Su | 3–12 hours | BTBL-4110 Greek Syntax and Exegesis —Sp | 3 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. <i>Prerequisites: 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.</i> | | 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. <i>Prerequisite: BTBL-3510 Intermediate Greek I.</i> (dual-listed with BTBL-6110 Greek Syntax & Exegesis) | |
| BTAT-4900 | 1–3 hours | BTBL-4510 Readings in New Testament Greek —Sp | 1 hour |
| Independent Study in Applied Theology —Fa, Sp, Su | | 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. <i>Prerequisite: BTBL-3510 Intermediate Greek I</i> (even years). | |
| BTAT-4990 Topics in Applied Theology —Fa, Sp | 1–3 hours | BTBL-4900 | 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. | | Independent Study in Biblical Language —Fa, Sp, Su | |
| Bible and Theology: Biblical Languages (BTBL) | | The student will translate and/or exegete a Scripture passage or investigate advanced grammar and syntax. | |
| BTBL-2010 | 3 hours | BTBL-4990 Topics in Biblical Languages —Fa, Sp | 1–3 hours |
| Introduction to Biblical Language —Fa | | Investigation of special topics in Bible and theology that have intrinsic worth and engage student interest. <i>Prerequisite: Permission of instructor required for non-majors.</i> | |
| This course is an introduction to the basic principles of phonology (sounds), morphology (forms), and grammar of biblical Greek and Hebrew. (Fee \$100) | | Bible and Theology: Biblical Studies (BTBS) | |
| BTBL-2510 Elementary Greek I —Fa | 4 hours | BTBS-1000 Introduction to Biblical Studies —Sp | 1 hour |
| 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. | | 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 possibilities and aid the student in determining his or her fit with the field. | |
| BTBL-2520 Elementary Greek II —Sp | 4 hours | BTBS-2020 Biblical Research Methods —Sp | 0 hour |
| 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. (Fee \$100) | | The student will learn both how to conduct research and how to produce a research paper, the contents and style of which comply with generally accepted standards held by biblical scholars. In addition, the student will demonstrate these skills by producing a research paper that proposes the student's plan for fulfilling the program's senior-seminar capstone requirement. (Fee: \$15) (even years) | |
| BTBL-3510 Intermediate Greek I —Fa | 3 hours | BTBS-3400 Bible Backgrounds —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. <i>Prerequisite: BTBL-2510, 2520 Elementary Greek.</i> (dual-listed with BTBL-6510 Intermediate Greek) | | 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. <i>Prerequisites: BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature.</i> (odd years) | |
| BTBL-3520 Intermediate Greek II —Fa, Sp | 3 hours | BTBS-4310 Hermeneutics —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. <i>Prerequisite: BTBL-3510 Intermediate Greek I.</i> | | 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) | |
| BTBL-3610 | 3 hours | BTBS-4850 Senior Seminar —Sp | 3 hours |
| Biblical Hebrew Grammar and Syntax I —Fa | | 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. <i>Prerequisite: Senior status.</i> | |

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| Bible and Theology: Christian Ministry (BTCM) | | | |
| BTCM-1000 Orientation to Bible Ministries Majors–Fa | 1 hour | BTCM-3685 Children's Ministries–Sp | 3 hours |
| 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. | | An engagement of biblical texts to establish a biblical theological approach to ministry to preschool and elementary-age children and their families in connection with the local church, with an awareness of familial influences, developmental characteristics, and contemporary sociological factors. Students are equipped to utilize creative, interactive strategies for teaching the Bible and to develop effective ministry programs. Course consists of class sessions and teaching practice. | |
| BTCM-2050 Foundations for Ministry–Fa | 1 hour | BTCM-3700 Campus Ministries–Sp | 4 hours |
| This course will provide an introductory view of Christian ministry within the context of the local church. It will focus on how worship directs the development and implementation of Christian service related to the edification of the body of Christ and the evangelism of the lost. The topics that will be addressed will include a theology of church service, the definition of biblical leadership, the essential qualities of the minister, the missiological directive of Christianity, and various ministries that are frequently employed in the contemporary setting. (odd years) | | 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. <i>Prerequisites: BTCM-2400 Interpreting and Teaching the Bible; major or minor status or permission of the instructor.</i> | |
| BTCM-2200 Introduction to Youth Ministry–Sp | 2 hours | BTCM-3705 Youth Ministries–Sp | 3 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. | | An engagement of biblical texts to establish a biblical theological approach to ministry to junior high and senior high youth in connection with the local church, with an awareness of familial influences, developmental characteristics, and contemporary sociological factors. Students are equipped to utilize creative, interactive strategies for teaching the Bible and to develop effective ministry programs. Course consists of class sessions and teaching practice. <i>Prerequisites: BTCM-2200 Introduction to Youth Ministry; or permission of the instructor.</i> (Fee: \$20) | |
| BTCM-2400 Interpreting and Teaching the Bible–Fa | 6 hours | BTCM-3725 Adult Ministries–Fa | 3 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. <i>Prerequisite: BTGE-1725 The Bible and the Gospel.</i> | | An engagement of biblical texts to establish a biblical theological approach to ministry to adults of various ages in connection with the local church, with an awareness of familial influences, developmental characteristics, and contemporary sociological factors. Students are equipped to utilize creative, interactive strategies for teaching the Bible and to develop effective ministry programs. Course consists of class sessions and teaching practice. | |
| BTCM-3510 Small Group Ministry–Fa | 3 hours | BTCM-4100 Leadership of Christian Educational Ministries–Sp | 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. | | 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. <i>Prerequisites: For CE and youth ministries majors: BTCM-2400 Interpreting and Teaching the Bible; BTCM-3685 Children's Ministries; BTCM-3700 Campus Ministries; BTCM-3725 Adult Ministries. No prerequisites for non-majors.</i> (Fee: \$75) | |
| BTCM-3520 Counseling and Mentoring Women–Fa | 3 hours | BTCM-4300 Teaching Ministry of the Church–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-3520; dual-listed with BTAT-6150 Counseling and Mentoring Women. | | 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-3530 Contemporary Ministry to Women and Girls–Sp | 3 hours | BTCM-4350 Teaching Lab–Fa, Sp | 1 hour |
| 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) | | This course focuses on the practice of teaching biblical and theological content in a local church and/or para-church setting. Attention is given to the delivery of a biblical lesson, moving from textual interpretation to skilled proclamation. <i>Prerequisites: BTCM-4300 Teaching Ministry of the Church; or BTCM-3705 Youth Ministries; or BTCM-3725 Adult Ministries.</i> | |
| BTCM-3560 Counseling and Mentoring Men–Sp | 3 hours | | |
| In this course, the distinctive theological foundations and skills of biblical counseling will be examined and applied specifically to the ministry of mentoring and counseling men. Study will focus on the mandate and skills of leading men toward comprehensive maturity and counseling as it pertains to common life challenges for men in contemporary society. Crosslisted with BTAT. <i>Prerequisite: BTAT-3400 Biblical Care and Counseling; or permission of the instructor.</i> | | | |

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| BTCM-4740 Internship in Christian Ministries | 3–12 hours | BTGE-3755 Theology I –Fa, Sp, Su | 3 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. <i>Prerequisites:</i> 1) Approval of the faculty of the School of Biblical and Theological Studies. 2) Senior academic status. 3) Completion of the following five courses: BTAT-2350 Theological Foundations of Ministry; BTCM-2400 Interpreting and Teaching the Bible; BTCM-3680, 3700, or 3720 Children's Ministries, Campus Ministries, or Adult Ministries; BTAT-2400 Introduction to Evangelism or BTAT-3410 Discipleship; and one course in ministry concentration area. | Credit/No Credit. | 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. <i>Prerequisites:</i> BTGE-1725 The Bible and the Gospel; BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature. | |
| BTCM-4750 Internship in Youth Ministries | 3–12 hours | BTGE-3765 Theology II –Fa, Sp, Su | 3 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. <i>Prerequisites:</i> 1) Approval of the faculty of the School of Biblical and Theological Studies. 2) Senior academic status. 3) Completion of the following five courses: BTAT-2350 Theological Foundations of Ministry; BTCM-2200 Introduction to Youth Ministry; BTCM-2400 Interpreting and Teaching the Bible; BTCM-3700 Campus Ministries; BTAT-2400 Introduction to Evangelism or BTAT-3410 Discipleship. Credit/No Credit. | | 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. <i>Prerequisites:</i> BTGE-1725 The Bible and the Gospel; BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature; BTGE-3755 Theology I. | |
| Bible and Theology: History and Theology (BTHT) | | | |
| BTHT-2500 Church History –Fa | 3 hours | BTHT-2910 Theological Research –Fa, Sp | 2 hours |
| Students will investigate a significant topic or Scripture passage of special interest with a view toward integration of knowledge. | | This course is designed to survey the basic process, as well as selected special processes, germane to the field of theological research. <i>Prerequisite:</i> BTGE-1725 The Bible and the Gospel. | |
| BTCM-4990 Topics in Christian Education –Fa, Sp | 1–3 hours | BTHT-3050 Renaissance and Reformation Europe –Fa | 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. | | 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 Reformation and the Roman Catholic Counter-Reformation. A special emphasis will be placed on the continuities and discontinuities between the two movements. Crosslisted with HIST. (even years) | |
| Bible and Theology: General Education (BTGE) | | | |
| BTGE-1725 The Bible and the Gospel –Fa, Sp, Su | 3 hours | BTHT-3310 American Church History –Sp | 3 hours |
| An introductory course on the nature of the Bible, helpful tools for biblical interpretation, biblical practices that engender growing in spiritual maturity, and the Gospel-sharing task of all believers. Topics of emphasis include the content and appeal of the Gospel, the Holy Spirit's role in inspiring the Bible and in applying the Bible to the believer's life, gaining a valid interpretation of the author's textual meaning, and the role of the local church in spiritual growth. | | A survey of major trends, ideas and individuals in the history of the Church in America from the 1600s to the present, including the theological roots of American theology. Special attention will be given to the Puritans, Jonathan Edwards, the rise of the Social Gospel and theological liberalism. Crosslisted with HIST. (odd years) | |
| BTGE-2730 Old Testament Literature –Fa, Sp, Su | 3 hours | BTHT-3340 | 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. <i>Prerequisite:</i> BTGE-1725 The Bible and the Gospel. | | Christian Theology 1: Bible, Trinity, God the Father –Fa | |
| BTGE-2740 New Testament Literature –Fa, Sp, Su | 3 hours | 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. <i>Prerequisites:</i> BTGE-3755 Theology I or permission of the instructor. (dual-listed with BTHT-6340 Christian Theology 1: Bible, Trinity, God the Father) | |
| 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. <i>Prerequisites:</i> BTGE-1725 The Bible and the Gospel, BTGE-2730 Old Testament Literature. | | BTHT-3350 | 3 hours |
| | | 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. <i>Prerequisite:</i> BTGE-3765 Theology II or permission of the instructor. (dual-listed with BTHT-6350 Christian Theology 2: God the Son and God the Spirit) | |

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| BTHT-3360 | 3 hours | BTHT-3840 Theology of Sexuality and Family–Fa | 3 hours |
| Christian Theology 3: Humanity, Angels, and Salvation–Fa | | A study of the key issues in biblical and systematic theology related to human sexuality, gender, marriage, and family. Emphasis will be given to central biblical texts for formation of doctrine, historical disputes, and contemporary challenges, such as homosexuality and transgenderism. Crosslisted as BTAT. | |
| 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. <i>Prerequisite: BTGE-3755 Theology I or permission of instructor.</i> (dual-listed with BTHT-6360 Christian Theology 3: Humanity, Angels, and Salvation) | | <i>Prerequisite/Corequisite: BTGE-3755 Theology I. (odd years)</i> | |
| BTHT-3370 | 3 hours | BTHT-4100 Biblical Theology–Fa | 3 hours |
| Christian Theology 4: The Church and Last Things–Sp | | 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) | |
| 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. <i>Prerequisite: BTGE-3765 Theology II or permission of the instructor.</i> (dual-listed with BTHT-6370 Christian Theology 4: The Church and Last Things) (even years) | | <i>Prerequisite/Corequisite: BTHT-3510 Christian History and Theology I. (odd years)</i> | |
| BTHT-3500 Historical Theology–Sp | 3 hours | BTHT-4220 Early Christian Thought–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. <i>Prerequisites: BTGE-2730 Old Testament Literature , BTGE-2740 New Testament Literature, and BTHT-2500 Church History.</i> (dual-listed with BTHT-6500 Historical Theology) (even years) | | A study of the development of doctrine between the apostolic successors and the late fifth century A.D. Attention will be given to the major people, key thinkers, movements, and theological controversies during this period of Church history. This course examines the primary sources that depict the Church's activity and articulate Christian theology. <i>Prerequisite/Corequisite: BTHT-3510 Christian History and Theology I. (odd years)</i> | |
| BTHT-3510 Christian History and Theology I–Fa | 3 hours | BTHT-4300 Global Theology–Fa | 3 hours |
| A study of the history of Christianity and the development of doctrine between the apostolic successors and the late medieval period. Attention will be given to the major people, key thinkers, movements, and significant events of the Church. This course examines the primary sources that depict the church's activity and articulate Christian theology. This course depicts Christianity's historical interaction with its context, the major and minor voices in theological discussions, and the significant purpose the Church has fulfilled in society. (dual-listed with BTHT-6110 Christian History and Theology I) | | 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) | |
| BTHT-3520 Christian History and Theology II–Sp | 3 hours | BTHT-4310 Hermeneutics–Fa, Sp | 3 hours |
| A study of the history of Christianity and the development of doctrine between the early reformers to the modern period. Attention will be given to the major people, key thinkers, movements, and significant events of the church. This course examines the primary sources that depict the Church's activity and articulate Christian theology. This course depicts Christianity's historical interaction with its context, the major and minor voices in theological discussions, and the significant purpose the Church has fulfilled in society. (dual-listed with BTHT-6120 Christian History and Theology II) | | 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-3740 Biblical Theology of Womanhood–Sp | 3 hours | BTHT-4320 | 3 hours |
| A survey of key biblical components that delineates what it means to be female in Christ. The course includes a comprehensive study of major biblical passages concerning women, a survey of women in the Bible, and discussions of the application of these texts within the current cultural milieu. (dual-listed with BTHT-6740 Biblical Theology of Womanhood) | | Contemporary Theology in Historical Context–Sp | |
| BTHT-3750 Historical Theology of Womanhood–Fa | 3 hours | Critical study of traditions, trends, issues, and major thinkers in contemporary theology. <i>Prerequisites: BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature; or permission of the instructor.</i> (dual-listed with BTHT-6150 Contemporary Theology in Historical Context) (even years) | |
| This course includes an overview of major theological concepts developed and discussed throughout the various periods of church history as well as an overview of major events in the history of the church. It will discuss the church's understanding of humanity throughout these periods, with a particular interest in womanhood. This contribution of women to both theological and historical developments in the church will be investigated. (odd years) | | BTHT-4900 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. <i>Prerequisites: BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature; or permission of the instructor.</i> | |
| Bible and Theology: New Testament (BTNT) | | | |
| BTNT-3110 New Testament 1: Synoptic Gospels–Fa | 3 hours | 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. <i>Prerequisite: BTGE-2740 New Testament Literature or permission of the instructor.</i> (dual-listed with BTNT-6110 New Testament 1: Synoptic Gospels) | | | |

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| BTNT-3120 | 3 hours | BTOT-3310 Old Testament 3: Latter Prophets–Fa | 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. <i>Prerequisite: BTGE-2740 New Testament Literature or permission of the instructor.</i> (dual-listed with BTNT-6120 New Testament 2: Acts and new Testament Epistles) | |
| BTNT-3130 New Testament 3: Pauline Literature–Fa | 3 hours | BTOT-3410 Old Testament 4: Writings–Sp | 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. <i>Prerequisite: BTGE-2740 New Testament Literature or permission of the instructor.</i> (dual-listed with BTNT-6130 New Testament 3: Pauline Literature) (even years) | | 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. <i>Prerequisite: BTGE-2730 Old Testament Literature; or permission of the instructor.</i> (dual-listed with BTOT-6140 Old Testament 4: Writings) | |
| BTNT-3140 | 3 hours | BTOT-4900 | 1–3 hours |
| New Testament 4: Johannine Literature–Sp | | Independent Study in Old Testament–Fa, Sp, Su | |
| 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. <i>Prerequisite: BTGE-2740 New Testament Literature or permission of the instructor.</i> (dual-listed with BTNT-6140 New Testament 4: Johannine Literature) | | Students will investigate a significant topic or a Scripture passage of special interest with a view toward integration of knowledge. | |
| BTNT-4900 | 1–3 hours | BTOT-4990 | 1–3 hours |
| Independent Study in New Testament–Fa, Sp, Su | | Selected Studies in the Old Testament–Fa, Sp | |
| Student will investigate a significant topic or Scripture passage of special interest with a view toward integration of knowledge. | | Selected studies in an Old Testament book or specific grouping of books. Repeatable with different books or groupings. <i>Prerequisites: BTGE-2730 Old Testament Literature or permission of instructor.</i> (dual-listed with BTOT-6150 Exposition of Old Testament Book) | |
| Bible and Theology: Old Testament (BTOT) | | | |
| BTOT-3140 Psalms–Fa | 3 hours | Bible and Theology: Philosophy and Apologetics (BTPA) | |
| Examination of the book of Psalms with special attention given to the various types of psalms and their application to life. <i>Prerequisites: BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature or permission of the instructor.</i> | | BTPA-2200 Introduction to Philosophy–Fa, Sp | 3 hours |
| BTOT-3150 Wisdom Literature–Sp | 3 hours | Survey of the principle issues in Western philosophy, covering such areas as epistemology, metaphysics, aesthetics, and the major systems of philosophy. | |
| 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. <i>Prerequisites: BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature; or permission of the instructor.</i> | | BTPA-2240 Logic–Fa | 3 hours |
| BTOT-3110 Old Testament 1: Pentateuch–Fa | 3 hours | Study of the principles of correct and fallacious reasoning involved in traditional logic and modern logic. (even years) | |
| 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. <i>Prerequisite: BTGE-2730 Old Testament Literature or permission of the instructor.</i> (dual-listed with BTOT-6110 Old Testament 1: Pentateuch) | | BTPA-2250 Ethics–Fa | 3 hours |
| BTOT-3210 Old Testament 2: Former Prophets–Sp | 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. | |
| 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. <i>Prerequisites: BTGE-2730 Old Testament Literature or permission of the instructor.</i> (dual-listed with BTOT-6120 Old Testament 2: Former Prophets) | | BTPA-2260 World Religions–Fa, Sp | 3 hours |
| | | An introduction to the teachings and practices of the major world religions along with a Christian response to these religions. | |
| BTPA-3240 Epistemology–Fa | | | |
| | | Study of the nature, sources, types, tests, and limits of human knowledge. <i>Prerequisite: BTPA-2200 Introduction to Philosophy.</i> | |
| BTPA-3250 Philosophy of Religion–Sp | 3 hours | 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. <i>Prerequisite: BTPA-2200 Introduction to Philosophy.</i> (dual-listed with BTPA-6250 Philosophy of Religion) | |
| BTPA-3280 Metaphysics–Sp | 3 hours | BTPA-3280 Metaphysics–Sp | 3 hours |
| | | Study of selected topics in metaphysics, including the mind-body problem, substance, qualities and universals, identity, space and time, causation, and freedom and determinism. <i>Prerequisite: BTPA-2200 Introduction to Philosophy.</i> (odd years) | |
| BTPA-3310 | 3 hours | 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. <i>Prerequisite: BTPA-2200 Introduction to Philosophy.</i> (odd years) | |

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| BTPA-3320 History of Modern Philosophy–Sp | 3 hours | BUS-2170 Introduction to Business Analytics–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. | | This course will expose students to the data analytics practices executed in the business world. Key areas include the analytical process; how data is created, stored, accessed; and how the organization works with data and creates the environment in which analytics can flourish. The course will explore the use of statistical programming languages and packages to perform data analysis. | |
| <i>Prerequisite: BTPA-2200 Introduction to Philosophy. (odd years)</i> | | <i>This course also provides a basis for going deeper into advanced investigative and computational methods. Prerequisites: ITM-2100 Database Management ; BUS-2150 Statistics for Business. (even years)</i> | |
| BTPA-3330 Contemporary Philosophy–Fa | 3 hours | BUS-2180 Business Law I–Fa, Sp | 3 hours |
| Survey of significant European and American philosophies of the 19th and 20th centuries covering philosophical developments from Hegelianism to analytic philosophy. <i>Prerequisite: BTPA-2200 Introduction to Philosophy. (even years)</i> | | Examines the legal environment in which business operates. The course begins by surveying various sources of law and related ethical principles, and the structure and function of the judicial system. The remainder of the course addresses substantive areas of law, typically including torts, contracts, warranty and consumer protection, agency and employment, business entities, antitrust, intellectual property, and environmental law. | |
| BTPA-3450 Biblical Apologetics–Sp | 3 hours | BUS-3000 The Business Experience–Fa, Sp | 1 hour |
| Study of theological and philosophical arguments for the Christian faith. Emphasis on biblical revelation and its use in the defense and confirmation of the Gospel in historical sources and contemporary settings. <i>Prerequisite: BTGE-2740 New Testament Literature; or permission of the instructor. (dual-listed with BTPA-6450 Christian Apologetics)</i> | | 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). | |
| BTPA-3500 Current Religious Movements–Sp | 3 hours | BUS-3150 Operations Analysis–Fa, 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. <i>Prerequisites: BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature; or permission of the instructor.</i> | | Introduces mathematical methods of decision analysis. Topics include probability, forecasting, decision under uncertainty, decision trees, inventory models, linear programming, and networks. <i>Prerequisite: BUS-2150 Statistics for Business.</i> | |
| BTPA-4030 Philosophy and Literature–Sp | 2 hours | BUS-3180 Business Law II–Sp | 3 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) | | 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. <i>Prerequisite: BUS-2180 Business Law I.</i> | |
| BTPA-4290 Topics in Philosophy–Sp | 1–3 hours | BUS-3280 | 3 hours |
| Various topics offered as interest demands. For majors in philosophy. Permission of instructor required for non-majors and minors. | | Integrated Business Core Practicum–Fa | |
| BTPA-4900 | 1–3 hours | Guided by faculty, students will organize and operate a business for the semester and also plan and complete a community service project. Students in this course will apply concepts learned in prerequisite and corequisite courses in establishing a business venture. <i>Prerequisites: MRKT-3600 Principles of Marketing; Corequisites: MGMT-3500 Principles of Organization and Management; FIN-3710 Principles of Finance (corequisite courses taken concurrently as a block).</i> | |
| Independent Study in Philosophy–Fa, Sp, Su | | BUS-3400 | 1–3 hours |
| The student will investigate a significant topic of philosophy of special interest with a view toward integration of knowledge. | | Independent Study in Business Administration–Fa, Sp, Su | |
| BTPA-4910 Seminar in Philosophy–Fa | 3 hours | Research in problems of accounting, management information systems, general business, economics, finance, management, or marketing. | |
| 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. | | BUS-3410 Topics in Business–Fa, Sp, Su | 1–3 hours |
| Business Administration (BUS) | | | |
| BUS-1000 The Business Profession–Fa, Sp | 2 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 ENTR-3410 Topics in Entrepreneurship; ITM-3410 Topics in Information Technology Management) | |
| 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-3450 Business Internship | 3–12 hours |
| BUS-2100 Business Communication–Fa, Sp | 3 hours | A work-study program designed for junior and senior business administration majors to receive a variety of job-related experiences in a business environment. The program is arranged and administered by the department. | |
| Instruction for writing business letters, memos, email, and business reports. Oral business presentations, group collaboration, and the communication process in general are also discussed. <i>Prerequisite: ENG-1400 Composition.</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, t-tests, Chi-square tests, F-tests, regression models, and time series. <i>Prerequisite: GMTH-1020 College Algebra.</i> | | | |



BUS-3910 International Business–Fa, Sp **3 hours**

This course is a broad overview of how business is different in a global setting by introducing key concepts, terms, trends, theories and organizations. Each group will put these foundational principles into practice by developing a country analysis and business plan to launch a fast food restaurant into a new country. Additionally, students will consider how to use the principles of Business As Mission (BAM) to achieve spiritual objectives as well as profit. (Fee: \$20)

BUS-4150 **3 hours**

Advanced Business Analytics and Visualization

This course will explore the field of data analytics by covering state-of-the-art modeling, analysis, and visualization techniques. The course will emphasize the importance of understanding the underlying data, validating the data, applying a meaningful analytic to the data, and only then visualizing the data. The course will discuss practical challenges involving complex real-world data and include several case studies and hands-on work with a modern data analysis and visualization package. Crosslisted with ITM. Prerequisites: BUS-2170 *Introduction to Business Analytics*. (odd years)

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.

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 hours**

Independent and intensive study in a particular area of conducting for individual students who demonstrate special interests and ability. Prerequisite: CDMU-3620 *Instrumental Conducting*; CDMU-3630 *Choral Methods*; or equivalent.

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 School 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 **4 hours**

For non-science majors, an introduction to atomic structure, ionic and covalent bonding, stoichiometry, kinetic theory, solutions and equilibria, nuclear chemistry, nomenclature, structure, and reactions of organic compounds. Four lectures and one two-hour laboratory per week. (Fee: \$50)

CHEM-1050 Chemistry for Engineers–Fa, Sp **3.5 hours**

Fundamental concepts of chemistry are developed with applications of chemistry to engineering disciplines. Students learn measurement, number handling, the Periodic Table, descriptive properties of atoms, elements, molecules, and ions, chemical reactions, stoichiometry, chemical bonding, equilibrium, thermodynamics, gas laws, and the nature of solids and liquids. Three lectures per week, and one bi-weekly two-hour laboratory. (Fee: \$50)

Chemistry: Major (CHEM)

CHEM-1110 General Chemistry I–Fa **4 hours**

Fundamental concepts of physical, inorganic, and analytical chemistry are developed. Students are introduced to the physical chemistry concepts of atomic theory, chemical bonding, molecular structure, gas laws, states of matter, and thermochemistry. Inorganic concepts of reaction types and stoichiometry are included. Lab stresses analytical techniques including quantitation, separation, titration, and statistical analysis of data. Three lectures and one three-hour lab per week. (Fee: \$100)

CHEM-1120 General Chemistry II–Sp **4 hours**

A continuation of General Chemistry I, including the physical chemistry concepts of intermolecular forces, properties of solutions, kinetics, equilibrium, and Gibbs free energy. Inorganic topics include acids and bases, oxidation-reduction reactions, solid-state structures, metal complexes, and nuclear chemistry. Lab exercises stress quantitative analytical techniques, application of visible light spectroscopy, and statistical analysis of data. Three lectures and one three-hour lab per week. Prerequisite: CHEM-1110 *General Chemistry I*. (Fee: \$100)

CHEM-2210 Analytical Chemistry I–Fa **3 hours**

A study of the fundamental concepts and skills of analytical chemistry including measurement, statistical treatment of data, equilibrium constant calculations, solubility equilibria, acid-base equilibria, EDTA-complexation equilibria, volumetric analysis, and radiochemical analysis. The laboratory sessions focus on volumetric methods such as precipitation titrations, acid-base titrations, complexation titrations, and redox titrations where accurate measurement of volume is essential. Two lectures and one three-hour laboratory per week. Prerequisite: CHEM-1120 *General Chemistry II*. (Fee: \$150)

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|--|----------------|--|------------------|
| CHEM-2220 Analytical Chemistry II–Sp | 3 hours | CHEM-3710 Biochemistry–Sp | 4 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. <i>Prerequisite: CHEM-2210 Analytical Chemistry I.</i> (Fee: \$150) | | 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. <i>Prerequisites: BIO-1115 Biology I: Cell Biology; CHEM-3510 Organic Chemistry I.</i> (Fee: \$150) | |
| CHEM-2800 Introduction to Research in Chemistry–Fa | 1 hour | CHEM-4310 Thermodynamics and Kinetics–Fa | 4 hours |
| 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. <i>Prerequisite: CHEM-1120 General Chemistry II.</i> (Fee: \$100) | | A study of the laws of thermodynamics, chemical equilibrium, solutions, and kinetics. Three lectures and one three-hour lab per week. <i>Prerequisites: CHEM-2210 Analytical Chemistry I.</i> (Fee: \$150) | |
| CHEM-3210 Environmental Chemistry–Sp | 4 hours | CHEM-4320 Quantum Mechanics and Spectroscopy–Sp | 4 hours |
| A detailed study of energy resources, atmospheric chemistry, and surface water chemistry, with an emphasis on the application of principles from previous courses to current environmental issues. Three lectures and one three-hour lab per week. <i>Prerequisite: CHEM-2220 Analytical Chemistry II and CHEM-3510 Organic Chemistry II, or permission of the instructor.</i> (Fee: \$100) (odd years) | | A study of the states of matter, surface phenomena, quantum mechanics, bonding, and spectroscopy. Three lectures and one three-hour lab per week. <i>Prerequisites: CHEM-2210 Analytical Chemistry I.</i> (Fee: \$150) | |
| CHEM-3400 Advanced Forensic Chemistry–Sp | 4 hours | CHEM-4410 Advanced Inorganic Chemistry–Sp | 3 hours |
| An advanced study of the application of analytical chemistry to forensic analysis. A detailed study of best practices for quality control and error analysis in forensic chemistry, modern DNA typing with an emphasis on sample preparation and interpretation of results, instrumental methods in fiber and glass trace analysis, extraction and analysis of accelerants in fire investigation, drug toxicology and metabolism, and seized drug identification with an emphasis on acid/base extraction of samples and analysis by immunoassay, LCMS, and GCMS. Three lectures and one three-hour lab per week. <i>Prerequisites: CRJU-1310 Introduction to Criminal Justice; FORS-1500 Introduction to Forensic Science; BIO-1115 Biology I: Cell Biology. Corequisites: CHEM-2220 Analytical Chemistry II; CHEM-3510 Organic Chemistry I.</i> Crosslisted with FORS-3400 (Fee: \$100) (even years) | | 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. <i>Prerequisite: CHEM-3410 Inorganic Chemistry.</i> (even years) | |
| CHEM-3410 Inorganic Chemistry–Fa | 3 hours | CHEM-4800 Senior Seminar–Chemistry–Sp | 1 hour |
| 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. <i>Prerequisite: CHEM-2210 Analytical Chemistry I.</i> (Fee: \$100) | | Capstone course for majors in chemistry. Students choose a topic that expands upon a topic covered in their chemistry classes and research recent, relevant articles connected to the topic. The student will write a research paper and give an oral presentation relating to the topic and the relevant articles. The topic may coincide with research the student has participated in. Each student must obtain approval of the topic from their topic advisor and the seminar instructor within three weeks of starting the course. The students must also attend a minimum of 10 seminars during the senior year. Guest lecturers or faculty members may present papers at the invitation of the instructor. <i>Prerequisites: Senior status; attendance of a minimum of 10 seminars during the sophomore and junior years.</i> | |
| CHEM-3510 Organic Chemistry I–Fa | 4 hours | CHEM-4830 Research in Chemistry–Fa, Sp | 1–3 hours |
| Study of the structure, nomenclature, stereochemistry, physical properties, spectra, syntheses, reactions, and reaction mechanisms of alkanes, alkenes, alkynes, alkyl halides, alcohols, and ethers. Biological and medical applications are included. Lab includes basic techniques, procedures, and instruments, as well as syntheses and reactions. Three fifty-minute lectures and one three-hour lab per week. <i>Prerequisite: CHEM-1120 General Chemistry II.</i> (Fee: \$150) | | Student participate in an inquiry-based research project under the direction of a faculty mentor. The project stresses methods of science including literature reviews, experimental design, data collection, data analysis, and interpretation and communication of results. The course may be repeated for up to 6 credits. <i>Prerequisites: CHEM-2800 Introduction to Research in Chemistry; permission of instructor.</i> (Fee: \$150) | |
| CHEM-3520 Organic Chemistry II–Sp | 4 hours | CHEM-4880 Topics in Chemistry | 1–3 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. <i>Prerequisite: CHEM-3510 Organic Chemistry I.</i> (Fee: \$150) | | Topics of special interest are selected by the chemistry faculty from the areas of modern chemistry. <i>Prerequisites: Junior status; permission of instructor.</i> | |
| | | 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. <i>Prerequisites: CHEM-2210 Analytical Chemistry I; CHEM-3510 Organic Chemistry I; CHEM-4310 Thermodynamics and Kinetics.</i> | |
| | | CHEM-4910 Chemistry Internship–Fa, Sp, Su | 1–3 hours |
| | | Students will gain experience in the chemistry profession in a departmentally approved work environment. A technical report detailing the skills and techniques utilized and a supervisor's evaluation will be the basis for successful completion. <i>Prerequisite: CHEM-2220 Analytical Chemistry II or CHEM-3520 Organic Chemistry II.</i> | |

Chinese (CHN)

CHN-1100 Elementary Chinese I–Fa

4 hours

This course will teach students elementary levels of Chinese language proficiency in Mandarin or Putonghua. Students will develop skills in listening, speaking, reading, and writing in Chinese.

CHN-1200 Elementary Chinese II–Sp

4 hours

This course will teach students elementary levels of Chinese language proficiency in Mandarin or Putonghua. Students will develop skills in listening, speaking, reading, and writing in Chinese. *Prerequisite: CHN-1100 Elementary Chinese I.*

Music Class Studies (CLMU)

CLMU-1170 Diction for Singers I–Fa

2 hours

Students will master the rules of pronouncing Italian and Latin language song texts using the International Phonetic Alphabet. Classroom activities will include listening to, reading, and singing Italian and Latin language song texts.

CLMU-1180 Diction for Singers II–Sp

2 hours

Students will master the rules of pronouncing German and French language song texts using the International Phonetic Alphabet. Classroom activities will include listening to, reading, and singing German and French language song texts.

CLMU-1810 Piano Class I–Fa

2 hours

Group instruction in piano fundamentals. Required for music majors who are unable to pass the piano proficiency. Open to other individuals with permission of the instructor. (Fee: \$30)

CLMU-1820 Piano Class II–Sp

2 hours

Continued group instruction in piano fundamentals and repertoire. *Prerequisite: CLMU-1810 Piano Class I.* (Fee: \$30)

CLMU-1860 Voice Class–Fa

1 hour

Group instruction in basic vocal technique and repertoire. Enrollment open to any student not majoring in voice. Repeatable. (odd years)

CLMU-2200 Music Literature: Special Topics

1–2 hours

A survey of the history and literature for the specified instrument.

CLMU-2210 Brass Literature–Fa

1 hour

A survey of brass literature covering all historical periods but emphasizing the chamber music genre. (even years)

CLMU-2220 Percussion Literature–Sp

1 hour

A survey of literature for percussion with special emphasis on the 20th century. Total percussion will be considered. (even years)

CLMU-2230 String Literature–Sp

1 hour

A survey of string literature covering all historical periods but emphasizing the chamber music genre. (even years)

CLMU-2240 Woodwind Literature–Fa

1 hour

The study of the history and literature of the woodwind instruments (flute, oboe, clarinet, bassoon). (odd years)

CLMU-2300 Keyboard Literature–Sp

2 hours

A survey of music for the piano and its precursors, covering the period from 1600 to the present, with a focus on the works which have come to form the core of the repertoire. (odd years)

CLMU-2310 Collaborative Piano–Fa, Sp

1 hour

Supervised piano accompanying experience. The student is assigned to work with one vocalist or instrumentalist for the semester and will prepare music for studio lessons as well as public performances.

CLMU-2750 Performance Seminar–Fa, Sp

0 hours

A once-per-semester seminar, that may take the form of a lecture, masterclass, or recital.

CLMU-2760 Performance Portfolio–Fa, Sp

0 hours

The student will assemble and present materials, that demonstrate performance achievement and professional awareness. The portfolio may include documentation of performances, masterclass, and repertoire.

CLMU-2800 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

2 hours

This course exposes the student to exemplary repertoire for choirs of all levels and voicings. Most class sessions are devoted to sight-reading and discussing a large number of choral pieces as well as evaluative listening to recordings. Open to all music majors, minors, and to all CU ensemble members. For music majors, it is recommended that this course be taken concurrently with CDMU-3630 Choral Methods.

CLMU-3120 Vocal Literature–Sp

3 hours

Survey of literature for the solo voice from the onset of Thoroughbass to the 21st century. Includes major repertoire in Italian, French, English, and German, along with important works in other languages. Analysis of song and aria scores will be complemented by recordings and live performance. Crosslisted with HLMU. (even years)

CLMU-3130 Opera and Oratorio Literature–Sp

3 hours

Survey of opera and oratorio literature from Monteverdi's *Orfeo* and Carissimi's *Jephte* to works of the 21st century. Analysis of scores will be complemented by recordings, live performance, libretti studies, and historical background. Crosslisted with HLMU.

CLMU-3410 Traditional Irish Music–Fa

2 hours

This course introduces students to the practice of traditional Irish music through study of primary tune forms, experience of the social context of Irish music-making, and acquaintance with leading performers within the tradition. The class culminates in an Irish music festival held at a local coffee shop. Crosslisted with HLMU-3410 Traditional Irish Music. *Prerequisite: Permission of instructor.* (Fee: \$30)

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-0930 MK/TCK PATHways to Success–Fa

1 hour

This course is designed to help Missionary Kid (MKS) and Third Culture Kid (TCKs) students transition and adapt to expectations of "American" culture and academics while discovering their own potential for proactively managing and excelling in all facets of college life. The class is designed to give each student a successful start with proven cultural adjustment and academic strategies and skills to navigate being the 'invisible immigrant'. It will address challenges such as plagiarism, intercultural communication, and cultural intelligence while promoting growth in their spiritual walk. The course is a semester long extension of International-MK-TCK student orientation and sets the foundation for student success, retention, and persistence. This course does not count toward hours for graduation. (Fee: \$150)

COLL-0950 International GATEways to Success–Fa, Sp 1 hour

This course is designed to help international students adapt to college-level learning in the American classroom and to help them transition to the expectations of “American” time while discovering their own potential to proactively manage and excel in all facets of college life. The class is designed to teach proven cultural adjustment and academic strategies, and address challenges such as plagiarism, intercultural communication, and cultural intelligence while promoting growth in their spiritual walk. The course will build on their new student orientation and provide the foundation for student success, retention, and persistence. This one credit hour course does not count toward the hours needed for graduation. (Fee:\$300)

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)

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

Students conduct interviews, observe interactions, and analyze documents and discourse to understand the cultural and organizational contexts in which they are a part. Qualitative research produces knowledge that promotes effective communication with unique people in particular situations.

COM-2300 Voices of Diversity–Fa, Sp
3 hours

Examination and critical analysis of the significant contributions and issues related to women, people of color, cultural minority groups, and the differently abled in the development of American cultural history. Cultural, social, and artistic contributions are examined and discussed. Field trips and guest performers/speakers will be incorporated.

COM-2330
3 hours
Writing for Communication Professions–Fa

This course covers the form and style of writing for internal and external communication, including use of social media and persuasive writing. Coursework includes writing executive summaries, memos, proposals, reports, grants, press releases, and opeds as part of a semester-long project. Students will also learn to manage communication in email, Twitter, and Facebook.

COM-2440 Advanced Forensics–Fa, Sp
1 hour

Advanced training for intercollegiate forensic competition. Focus on literary and rhetorical criticism, extemporaneous speaking, and the writing of original oratory. Repeatable up to six hours.

COM-2510 Media History–Sp
3 hours

This course offers the historical foundations of mass communication from colonial America to the present. Focuses on the growth of news and entertainment media within a social, political, and economic framework of each era of development. Particular attention is given to the interaction of minority and mainstream media.

COM-2520 Virtual Communication–Fa
3 hours

This course will teach students how to be successful biblical and professional virtual communicators through hands-on practice of successful online communication principles and techniques.

COM-2820 Political Communication–Fa
3 hours

A survey of the theory and practice surrounding the relationship between media and politics. Issues such as the role of media in promoting democracy; media effect theories, political knowledge, and the public's response to news; and the role of public opinion in an open society will be explored. (even years)

COM-3100 Advanced Public Speaking–Sp
3 hours

Emphasizes the creative, logical, and audience-centered thinking needed for excellent public address. Students exhibit logical communication skills through writing and speaking assignments. *Prerequisite: COM-2200 Communication in Applied Contexts.*

COM-3150 Gender, Politics, and Communication–Fa
3 hours

Using communication theory and biblical application, this course studies the patterns and the effects of communication upon male and female genders identifying the political struggles that are a part of gender relationships and communication. The women's movement, contemporary masculinity studies, and the Christian church's response to gender issues are surveyed.



COM-3230 Organizational Communication–Sp 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 hours

Focus on communication and the negotiation process in the organizational context, coverage of negotiation theories, elements of the negotiation process, and negotiation formats (e.g., salary negotiations, budget negotiations, collective bargaining, etc.).

COM-3330 Organizational Training–Fa 2 hours

Focuses on trainer skills essential for training the adult employee in an organizational setting. Techniques and learning resources are presented to aid the trainer in assessing training needs. *Prerequisite: COM-3230 Organizational Communication or permission of instructor.*

COM-3350 Event Planning–Sp 3 hours

This course introduces students to event planning processes and techniques. Emphasis is on creating, organizing, planning, processing, marketing, implementing, and evaluating a wide variety of events. Focus includes information and resources applicable to community, professional, private, nonprofit and for-profit 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.*

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-3901 Rhetoric of Abortion Ethics–Su 3 hours

This course helps the student to enter the serious intellectual discussion about the foundation for human rights and the value of life. Course material will review the basic pro-life case and examine the underlying worldview assumptions that both academic and lay people bring to debates over abortion, embryonic stem cell research, and cloning. The course will also discuss why the Christian worldview in particular does a better job accounting for intrinsically valuable human beings, fundamental human rights, and objective moral rules. (even year)

COM-3902 Public Advocacy in Bioethics–Su 3 hours

This course provides students with a thorough understanding and mastery of the often difficult public conversation concerning life and abortion. Through a rigorous workshop environment, the student will learn to quickly evaluate a question or subject, research it sufficiently, and then prepare and deliver a speech or remarks on the matter at hand. Course material will establish best practices for public discourse from a Christian perspective and provide the student with a thorough knowledge of reasoning, persuasion and fallacies. The course will also prepare students to network into their communities by identifying and preparing target audiences for engagement and by training others to become successful advocates as well. (even years)

COM-4060 Organizational Leadership–Fa, Sp 3 hours

Leadership as a societal role is addressed through analysis of theory and observation of practitioners. A chronology of methodological approaches to the study of leadership is presented. Students observe and evaluate leaders in a variety of disciplines.

COM-4110 History of Public Address–Fa 3 hours

Classical rhetorical systems and theories are studied from the perspective of the rhetorical critic. The development of rhetoric is traced from the Greek period to the present. Analysis is made of the part rhetoric has played in the development of philosophies and nations.

COM-4120 Contemporary Rhetoric–Sp 3 hours

A survey of rhetorical theory that has developed since WWII. Selected representative, contemporary rhetorical theories will be studied and applied to U.S. political communication. Seeks to integrate the study of political messages and the current political culture. *Prerequisite: COM-4110 History of Public Address or permission of instructor.*

COM-4610 Communication Ethics–Sp 2 hours

Seminar focuses on how to reason biblically about ethical issues. Surveys contemporary Christian ethicists; examines issues of concern to the Christian community; suggests communication dynamics that build Christian social ethics.

COM-4640 Special Topics–Fa, Sp 2–3 hours

Topics of important interest are examined on an as-needed basis.

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| COM-4710–4760 Independent Study | 1–3 hours | CRJU-3350 Criminal Law–Sp | 3 hours |
| COM-4710–General Communication –Fa, Sp | 1–3 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. <i>Prerequisite: CRJU-1310 Introduction to Criminal Justice.</i> | |
| COM-4720–Organizational Communication –Fa, Sp | 1–3 hours | | |
| COM-4750–Media –Fa, Sp | 1–3 hours | | |
| COM-4760–Forensics –Fa, Sp | 1–3 hours | | |
| Taken to secure an in-depth background in one of the areas of communication. Repeatable to a total of eight credit hours in the field. <i>Prerequisite: Permission of instructor.</i> | | | |
| COM-4850 Senior Seminar –Sp | 1 hour | CRJU-3360 American Judicial System –Fa | 3 hours |
| 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. | | 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. <i>Prerequisite: CRJU-1310 Introduction to Criminal Justice.</i> | |
| COM-4900 Internship in Communication –Fa, Sp, Su | 3–12 hours | CRJU-3390 Criminal Evidence –Sp | 3 hours |
| Students are placed with professional organizations to gain experience in actual career situations. Internships depend upon availability. | | 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. <i>Prerequisite: CRJU-1310 Introduction to Criminal Justice.</i> | |
| COM-4950 Applied Capstone –Fa, Sp | 3 hours | CRJU-3400 Criminal Procedure –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. <i>Prerequisites: COM-2050 Communication Theory and COM-2220 Quantitative Research or COM-2225 Qualitative Research. (Fee: \$15)</i> | | 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. <i>Prerequisite: CRJU-1310 Introduction to Criminal Justice.</i> | |
| Criminal Justice (CRJU) | | CRJU-3500 Foundations of Emergency Management –Sp | 3 hours |
| CRJU-1310 Introduction to Criminal Justice –Fa | 3 hours | 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 community 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. <i>Prerequisite: CRJU-1310 Introduction to Criminal Justice. (even years)</i> | |
| CRJU-2200 Criminology –Fa | 3 hours | CRJU-3700 Financial Management for Social Science Professionals –Sp | 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. | | 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. <i>Prerequisites: CRJU 1000-level core courses; ECON-2110 Essentials of Economics; or permission of instructor.</i> | |
| CRJU-2310 Juvenile Delinquency –Fa | 3 hours | CRJU-3990 Criminal Justice Internship –Fa, Sp, Su | 3–12 hours |
| Study and assessment of causal theory and problems of correction and prevention of delinquency. Crosslisted as CRJU or SOC (Fee: \$15) | | 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. <i>Prerequisite: CRJU 1000 and 2000-level core courses or program director's permission.</i> | |
| CRJU-2840 Concepts of Chemical Dependency –Fa | 3 hours | CRJU-4150 Homeland Security –Sp | 3 hours |
| Available to all students. This course presents an overview of the social, economic, political, legal, spiritual, and ethical considerations concerning the use and abuse of alcohol and other drugs in our culture. A primary emphasis of the course includes application of a biblical perspective to assess use of various philosophies and perspectives on drugs and abuse. Treatment and prevention options for individuals and families will be discussed. Crosslisted as CRJU, PYCH, SOC, or SWK. | | 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. <i>Prerequisite: CRJU-1310 Introduction to Criminal Justice.</i> | |
| 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. <i>Prerequisite: CRJU-1310 Introduction to Criminal Justice.</i> | | | |

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| CRJU-4160 | 3 hours | Computer Science (CS) | |
| International and Domestic Terrorism–Sp | | CS-1210 C++ Programming–Fa, Sp | 2 hours |
| 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. | | 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) | |
| Crosslisted INTL and CRJU. (odd years) | | CS-1220 Object-Oriented Design Using C++–Fa, Sp | 3 hours |
| CRJU-4200 Police Administration–Fa | 3 hours | Further development of student problem solving and programming skills beyond CS-1210 by increased exposure to the C++ language features including pointers, object-oriented language constructs and design principles, memory management mechanisms, exception handling, event-driven programming, and graphical user interfaces (GUI). This course also promotes professional programming practices with emphasis on the careful reading and documenting programs to support the understanding and analysis of source code, program testing and debugging, secure software engineering practices, and following established language styles and conventions. Readings and lectures are reinforced with programming demonstrations, exercises, and assignments in both the Linus and Windows environments. | |
| 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. <i>Prerequisite: CRJU-1310 Introduction to Criminal Justice.</i> | | <i>Prerequisite: CS-1210 C++ Programming. (Fee: \$50)</i> | |
| CRJU-4320 Criminal Investigation–Fa | 3 hours | CS-2210 Data Structures Using Java–Fa, Sp | 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. <i>Prerequisite: CRJU-1310 Introduction to Criminal Justice.</i> | | 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. <i>Prerequisite: CS-1220 Object-Oriented Design Using C++. (Fee: \$50)</i> | |
| CRJU-4440 Special Topics: Criminal Justice | 1–3 hours | CS-3210 Programming Language Survey–Fa | 3 hours |
| Investigation of specific topics in Social Science and History that have intrinsic worth and engage student interest. | | Systematic study of the principles, concepts, and mechanisms of computer programming languages: their syntax, semantics, and pragmatics; the processing and interpretation of computer programs; programming paradigms; and language design. Illustrative examples will be selected and programming exercises will be assigned from a variety of programming language paradigms. <i>Prerequisite: CS-1220 Object Oriented Design Using C++. (Fee: \$50)</i> | |
| CRJU-4500 Comparative Criminal Justice–Sp | 3 hours | CS-3220 Web Applications–Sp | 3 hours |
| This course has been developed to provide students basic knowledge and understanding of criminal justice from an international/comparative perspective. The course will consist of study of historical legal traditions and the influence of those traditions on modern criminal justice processes and transnational criminal justice agencies. <i>Prerequisites: CRJU-1310 Introduction to Criminal Justice. (odd years)</i> | | 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. <i>Prerequisite: CS-2210 Data Structures Using Java. (Fee: \$50)</i> | |
| CRJU-4630 | 3 hours | CS-3310 Operating Systems–Fa, Sp | 3 hours |
| American Constitutional Law: Civil Liberties and Rights–Sp | | 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. <i>Prerequisite: CS-1220 Object-Oriented Design Using C++. (Fee: \$50)</i> | |
| 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. <i>Prerequisite: GSS-1100 Politics and American Culture</i> | | CS-3410 Algorithms–Fa, Sp | 3 hours |
| CRJU-4900 Research Issues in Criminal Justice–Sp | 3 hours | Introduction to classical algorithms that have broad application in solving computer science problems; topics include analysis of algorithms, advanced data structures, graph algorithms, numerical methods, and NP-completeness. <i>Prerequisite: CS-2210 Data Structures Using Java; Corequisite: MATH-2520 Discrete Math and Probability Principles for Computer Science; or instructor approval. (Fee: \$50)</i> | |
| 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. <i>Prerequisite: Senior status as a CRJU major. (Fee: \$80)</i> | | | |
| CRJU-4960 | 1–3 hours | | |
| Independent Study in Criminal Justice | | | |
| Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. <i>Prerequisite: Permission of the instructor.</i> | | | |

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| CS-3510 Compiler Theory and Practice –Sp | 3 hours | CS-4730 Virtual Reality Applications –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. <i>Prerequisite: CS-3410 Algorithms.</i> (Fee: \$50) | | Introduction to virtual reality application development. Extensive coverage of hardware and software development required to implement virtual reality. Including topics of visual and audio rendering, tracking, human physiology, and applications of VR. Group design project required. <i>Prerequisite: CS-2210 Data Structures Using Java.</i> (Fee: \$50) (even years) | |
| CS-3610 Database Organization and Design –Sp | 3 hours | CS-4810 Software Engineering I –Fa | 3 hours |
| Introduction to the analysis, design, and implementation of relational databases and the Structured Query Language (SQL); topics include data modeling techniques, data model to logical schema conversion techniques, relational algebra, SQL, database file organizations, query evaluation, transaction management, and client-server application architectures. Design project required. <i>Prerequisites: CS-2210 Data Structures Using Java. Corequisite: MATH-2520 Discrete Math and Probability Principles for Computer Science.</i> (Fee: \$50) | | 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. <i>Prerequisites: CS-3220 Web Applications; CS-3610 Database Organization and Design. Corequisite: CS-3410 Algorithms.</i> (Fee: \$50) | |
| CS-3920 Computer Science Internship –Fa, Sp | 1–3 hours | CS-4820 Software Engineering II –Sp | 4 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. <i>Prerequisites: Junior or Senior computer science major status; faculty advisor permission.</i> | | 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. <i>Prerequisite: CS-4810 Software Engineering.</i> (Fee: \$50) | |
| CS-3950 Topics in Computer Science –Fa, Sp, Su | 1–3 hours | CS-4950 Advanced Topics in Computer Science | 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. <i>Prerequisite: Permission of instructor.</i> | | 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. <i>Prerequisite: Permission of instructor.</i> | |
| CS-3980 Independent Study in Computer Science –Fa, Sp, Su | 1–3 hours | 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. <i>Prerequisites: Junior or Senior computer science or engineering major status, and permission of instructor.</i> | | 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. <i>Prerequisites: Junior or Senior computer science or engineering major status, permission of instructor.</i> | |
| CS-4410 Parallel Computing –Fa | 3 hours | Creative Writing (CWRT) | |
| 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. <i>Prerequisites: CS-3310 Operating Systems. Corequisite: CS-3410 Algorithms; permission of instructor.</i> (Fee: \$50) (even years) | | CWRT-2220 Introduction to Creative Writing –Fa, Sp | |
| CS-4430 Machine Learning for Intelligent Agents –Sp | 3 hours | 3 hours | |
| Introduction to applied machine learning with specific applications in interactive simulated 3D environments. Topics include Supervised Learning, Unsupervised Learning, Reinforcement learning. <i>Prerequisite: CS-2210 Data Structures Using Java.</i> (Fee: \$50) (odd years) | | 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. <i>Prerequisite: ENG-1400 Composition.</i> | |
| CS-4710 Computer Graphics –Fa | 3 hours | CWRT-3030 Fiction –Sp | 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. <i>Prerequisite: CS-2210 Data Structures Using Java.</i> (odd years) (Fee: \$50) | | 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. <i>Prerequisites: ENG-1400 Composition; CWRT-2220 Introduction to Creative Writing.</i> | |
| CWRT-3040 Poetry –Fa | 3 hours | CWRT-3040 Poetry –Fa | 3 hours |
| | | Provides guided practice, instruction in craft, constructive criticism, and a supportive atmosphere. Students should leave the course with more confidence about how to read and write poetry, as well as knowledge of the tradition, issues, and forms of poetry. <i>Prerequisites: ENG-1400 Composition; CWRT-2220 Introduction to Creative Writing.</i> | |
| CWRT-3050 Creative Nonfiction –Fa | 3 hours | CWRT-3050 Creative Nonfiction –Fa | 3 hours |
| | | Intensive study in writing literary nonfiction. Course focuses on sub-genres in contemporary nonfiction: the personal essay, autobiography/the memoir, the short, reportage. Workshop and conference approach. <i>Prerequisites: ENG-1400 Composition; CWRT-2220 Introduction to Creative Writing.</i> | |



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| CWRT-3240 Directed Writings —Fa, Sp | 1–3 hours | CY-3420 Cyber Defense —Fa | 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. <i>Prerequisite: any 3000-level creative writing workshop.</i> | | This course covers fundamental topics in data security, system security, network security, human security, organizational security, and societal security. In labs students will apply security principles and best practices that are necessary for organizations to maintain operations in the presence of risks and threats. Focused attention is paid to cryptography as the technical foundation of cybersecurity. <i>Prerequisites: CY-1000 Introduction to Cybersecurity, CS-1220 Object Oriented Design Using C++.</i> (Fee: \$50) | |
| CWRT-4220 Creative Writing Capstone I —Fa, Sp | 3 hours | CY-4310 Cyber Operations —Sp | 3 hours |
| Course provides an opportunity to produce and workshop an original body of work in a genre of your choice. Workshop environment will be rigorous and diagnostic, but also supportive. <i>Prerequisite: any 3000-level creative writing workshop.</i> | | This course covers cyber operations and the best practices for securing a technology infrastructure. Topics include offensive cyber operations, cyber-related legal precedents and regulations, wired and wireless network security, intrusion detection and prevention systems, system hardening, and defense in-depth. This is a hands-on course with a heavy emphasis on virtual machine-based lab exercises. <i>Prerequisites: CY-3420 Cyber Defense; EGCP-4310 Computer networks.</i> (Fee: \$50) | |
| CWRT-4221 Creative Writing Capstone II —Fa, Sp | 3 hours | CY-4330 Software Security —Sp | 3 hours |
| Course provides an opportunity to produce and workshop an original body of work in a genre of your choice. Workshop environment will be rigorous and diagnostic, but also supportive. <i>Prerequisite: CWRT-4220 Creative Writing Capstone I.</i> | | 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. <i>Prerequisites: CY-3320 Linux Systems Programming; CY-3420 Cyber Defense.</i> (Fee: \$50) | |
| CY-1000 Introduction to Cybersecurity —Fa, Sp, Su | 3 hours | CY-4810 Secure Software Engineering I —Fa | 3 hours |
| This course provides a broad overview of key cybersecurity concepts and practices and broadly characterizes the organizational security landscape. It is structured as a series of ordered modules that cover foundational security principles, organization risk management, and adversarial thinking as an organizing narrative for a series of other modules on data security, system security, and internet security. Practical skills such as cyber hygiene and personal device protection for personal security are also emphasized. Students will be taught how to evaluate the social, political, cultural, and economic impact of security in cyberspace from a biblical perspective. (Fee: \$50) | | The capstone experience for Cyber Operations majors. Introduction to secure software engineering principles focusing on requirement development, detailed design, risk analysis, project scheduling and management, quality assurance, and testing. Student teams meet regularly to develop a project management plan, a requirements document, and a detailed design. They begin implementation of their project that will be completed in CY-4820 Secure Software Engineering II. <i>Prerequisite: CY-3420 Cyber Defense; Corequisite: CS-3410 Algorithms.</i> (crosslisted with CS-4810 Software Engineering I) (Fee: \$50) | |
| CY-2310 Cyber Forensics —Fa | 3 hours | CY-4820 Secure Software Engineering II —Sp | 4 hours |
| This course provides students with the necessary information and hands-on experience with common software tools and command-line applications to prepare them for responding to cybersecurity incidents within their organization. In this course, students will learn basic processes for incident response and become familiar with the typical processes used in responding to an incident. These processes include creating an incident response plan, acquiring evidence, analyzing the collected evidence, and preparing written reports for both internal organizational use and in a courtroom. <i>Prerequisite: CY-1000 Introduction to Cybersecurity.</i> (Fee: \$50) | | Continuation of CY-4810 Secure Software Engineering I. Student teams will complete the implementation, testing, and release of their capstone project, submit regular progress reports, prepare a final report, and make a formal project presentation. <i>Prerequisite: CY-4810 Secure Software Engineering I.</i> (crosslisted with CS-4820 Software Engineering II) (Fee: \$50) | |
| CY-3320 Linux Systems Programming —Fa | 3 hours | Economics (ECON) | |
| A study of the Linux operating system with special emphasis given to developing low-level programming skills in C and assembly language for the purpose of understanding Linux's separation of user- and kernel-space features, system code, and how to develop kernel modules. In addition to the emphasis on low-level programming, students will study various system administration skills, scripting languages, administration and programming tools, and gain a better understanding of capabilities and limitations of the Linux operating systems (O/S). Students will also learn general information on how the Linux O/S is constructed, including its common organization into subsystems and programmer interfaces. Finally, students will practice administering user capabilities, the file system, access controls, kernel capabilities, and other system services (e.g., firewall, printing and networking) by configuring their own Linux distribution. <i>Prerequisites: CS-2210 Data Structures Using Java; CS-3310 Operating Systems.</i> (Fee: \$50) | | ECON-2110 Essentials of Economics —Fa, Sp | |
| | | The course provides an introduction to the essential principles of economics. These principles would include such areas as supply and demand, elasticity, productivity and cost analysis, economic efficiency, national income, the consumer price index, monetary and fiscal policy, business cycles, and economic performance. Course not applicable to any major from the Robert W. Plaster School of Business and also not open to students with credit for ECON-2330 Microeconomics and/or ECON-2340 Macroeconomics. | |
| | | ECON-2330 Microeconomics —Fa, Sp | |
| | | 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. | |

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| ECON-2340 Macroeconomics–Fa, Sp | 3 hours | ECON-3380 | 3 hours |
| The area of economic study that focuses on how human behavior affects outcomes in highly aggregated markets, such as the market for labor or for consumer products. It is a study of the behavior of the economy as a whole, including the study of economic phenomena such as interest rates, the price level and national income, and output and employment. <i>Prerequisite or Corequisite: ECON-2330 Microeconomics or permission of instructor.</i> | | 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. <i>Prerequisite: ECON-2330 Microeconomics; or permission of instructor.</i> | | This course will review the role of government in the economy, to include measures of economic efficiency and how inefficiencies within the market system may allow for government action to be potentially welfare enhancing. Theories of collective choice will be analyzed, and an analysis of supply and demand in political markets will be used to assess government policies such as regulation and taxation. Crosslisted as PUAD. <i>Prerequisite: ECON-2330 Microeconomics; or permission of instructor. (even years)</i> | |
| ECON-3310 Money and Financial Markets–Sp | 3 hours | ECON-3390 Public Finance–Fa | 3 hours |
| This course will introduce the student to monetary economics and how the monetary system impacts the whole complex of financial markets. Building on the foundation of macroeconomics, the course will include detailed analysis of financial markets and institutions as well as monetary theory. The institution of central banking and its influence on money and financial markets will be specifically evaluated. <i>Prerequisite: ECON-2340 Macroeconomics or permission of instructor. Crosslisted with FIN-3310.</i> | | This course will review the role of government in the economy, to include measures of economic efficiency and how inefficiencies within the market system may allow for government action to be potentially welfare enhancing. Theories of collective choice will be analyzed, and an analysis of supply and demand in political markets will be used to assess government policies such as regulation and taxation. Crosslisted as PUAD. <i>Prerequisite: ECON-2330 Microeconomics; or permission of instructor. (even years)</i> | |
| ECON-3335 Intermediate Microeconomics–Fa | 3 hours | ECON-3410 Topics in Economics–Fa, Sp, Su | 1–3 hours |
| Microeconomics is a study of economic principles that explain how our market-directed economy organizes and coordinates production and exchange. The principles explain a wide variety of economic and social phenomena. The course studies basic economic units, households and firms, and the equilibrium through exchange among competing and cooperating people. <i>Prerequisites: ECON-2330 Microeconomics; GMTH-1020 College Algebra; or permission of instructor.</i> | | A variety of courses are covered under this heading on an experimental basis. This allows the department to meet the changing needs of the students without formally adding or dropping courses. | |
| ECON-3340 History of Economic Thought | 3 hours | ECON-4110 Introduction to Econometrics–Sp | 3 hours |
| Principal figures in the development of economic ideas and the contribution of each period of economic thought from the mercantilist to the present. <i>Prerequisites: ECON-2330 Microeconomics; or permission of instructor.</i> | | 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. <i>Prerequisites: GSS-3650 Quantitative Methodology or BUS-2150 Statistics for Business. (even years)</i> | |
| 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 economic theory, as well as growth theory. Macroeconomic policy debates will be reviewed with the analytical tools developed. <i>Prerequisites: ECON-2340 Macroeconomics; GMTH-1020 College Algebra; or permission of instructor.</i> | | | |
| ECON-3350 Comparative Economic Systems–Fa | 3 hours | Primary (P–5) Education (EDEC) | |
| 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. <i>Prerequisite: ECON-2330 Microeconomics or permission of instructor.</i> | | EDEC-2100 | 2 hours |
| ECON-3360 International Trade and Economics–Fa | 3 hours | Fine Arts in the Classroom–Fa, Sp | |
| 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. <i>Prerequisite: ECON-2330 Microeconomics or permission of instructor.</i> | | An overview of the use of art and music to enhance the Primary (P–5) classroom. A strong emphasis on practical techniques and projects for personal expression based on an understanding of the importance of art and music at the system, school, classroom, and individual levels. <i>Prerequisite: EDUC-1000 The Education Profession. (Fee: \$20)</i> | |
| ECON-3375 Mathematical Economics–Sp | 3 hours | EDEC-2300 Phonics and the Reading Process–Fa, Sp | 4 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. <i>Prerequisites: ECON-2330 Microeconomics; ECON-2340 Macroeconomics; ECON-3335 Intermediate Microeconomics; MATH-1710 Calculus I. (odd years)</i> | | The study of phonics and the place of phonics in the overall reading program. The course addresses multisensory strategies for reading, spelling, and writing instruction. It provides the scientific definition of dyslexia, its common characteristics standardized by the IDEA, and the most effective research-based methodologies to address the instructional needs of individuals with dyslexia. Special emphasis on literacy and reading readiness. <i>Prerequisite: EDUC-1000 The Education Profession.</i> | |
| | | EDEC-3200 | 1 hour |
| | | Faith and Learning Alignment (P–5)–Fa, Sp | |
| | | An introduction into the principles and practices of biblical integration in the P–5 school setting. Course examines the theological and theoretical foundations of biblical integration and prepares the teacher candidate to align curriculum and instructional techniques to their grade level and educational setting. Crosslisted with EDUC-3200 Faith and Learning Alignment (4–12). <i>Prerequisite: EDUC-3100 Philosophical Foundations of Education. Corequisite: Enrollment in appropriate methods of teaching course for licensure area.</i> | |

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| EDEC-3500 Primary (P-5) Education —Fa, Sp | 3 hours | |
| An introductory descriptive overview of current primary (P-5) education, including various approaches, programs, and curricula. Emphasis on the development, implementation, and evaluation of primary programs. This course requires a current Ohio FBI Background Clearance Report to be on file with the School of Education for the duration of the field experience. <i>Prerequisite: Admission to the Teacher Education Program. Corequisite: Other courses in the Primary (P-5) Methods I block.</i> (Fee: \$10) | | |
| EDEC-3600 Issues in Primary (P-5) Administration —Fa, Sp | 3 hours | |
| An examination of program issues important to both teachers and administrators. Includes examination of models for leadership and for developing and maintaining personal and community working relationships. <i>Prerequisite: admission to the Teacher Education Program. Corequisite: Other courses in the Primary (P-5) Methods I block.</i> | | |
| EDEC-3800 Teaching Primary (P-5) Language Arts —Fa, Sp | 4 hours | |
| An introduction to the objectives, skills, instructional strategies, teaching aids, resource materials, and assessment techniques for teaching reading and the language arts to the primary (P-5) student. An associated clinical experience provides theory-driven application. <i>Prerequisite: admission to the Teacher Education Program. Corequisite: Other courses in the Primary (P-5) Methods I block.</i> (Fee: \$30) | | |
| EDEC-3900 Kindergarten Field Experience —Fa, Sp | 1 hour | |
| An observation and participation experience focusing on classroom routines and instruction in a kindergarten or preschool classroom. Designed to give a practical, field-based perspective to all of the courses in the primary (P-5) methods 1 block. <i>Prerequisite: Admission to the Teacher Education Program. Corequisite: Other courses in the Primary (P-5) Methods I block.</i> (Fee: \$45) | | |
| EDEC-3950 Primary (P-5) Field Experience I —Fa, Sp | 3 hours | |
| Teacher candidates spend three mornings per week for 14 weeks in a classroom for grades 1–5. The implementation of reading and language arts objectives, skills, strategies of instruction, teaching aids, and resource materials is practiced in a University-supervised setting. <i>Prerequisite: Admission to the Teacher Education Program. Corequisite: Other courses in the Primary (P-5) Methods I block.</i> (Fee: \$45) | | |
| EDEC-3990 Independent Study in Primary (P-5) Education —Fa, Sp, Su | 1–3 hours | |
| An investigation of contemporary topics in primary (P-5) education through reading, writing, or creative projects. | | |
| EDEC-4000 Reading in the Content Areas: Primary (P-5) —Fa, Sp | 2 hours | |
| An introduction to the dimensions, strategies, and programs for learning and teaching the reading process, assessment techniques, and instructional strategies to increase comprehension of the textual material of the various content disciplines taught in the Primary (P-5) grades. <i>Prerequisite: Successful completion of the Primary (P-5) Methods I block. Corequisite: Other courses in the Primary (P-5) Methods II block.</i> | | |
| EDEC-4100 Teaching Primary (P-5) Mathematics —Fa, Sp | 3 hours | |
| An introduction to the objectives, skills, instructional strategies, teaching aids, and resource materials for teaching mathematics in the elementary grades, based on the Ohio Model and NCTM Standards. An associated clinical experience provides theory-driven application. <i>Prerequisite: Other courses in the Primary (P-5) Methods II block.</i> | | |
| EDEC-4200 Teaching Primary (P-5) Science —Fa, Sp | 3 hours | |
| An examination of science curricula for students with particular emphasis on the Ohio Model and the National Science Teaching Standards. Instructional methodologies that emphasize three-dimensional science, an inquiry approach and S.T.E.M. will be modeled and practiced with attention given to a hands-on instruction. <i>Prerequisite: Successful completion of the Primary (P-5) Methods I block. Corequisite: Other courses in the Primary (P-5) Methods II block.</i> (Fee: \$15) | | |
| EDEC-4300 Teaching Primary (P-5) Social Studies —Fa, Sp | 3 hours | |
| An examination of social studies curricula for the Primary (P-5) with particular emphasis on the Ohio model, the NCSS Standards, Ohio history, and the integration of social studies with other disciplines. Instructional methodologies that emphasize the teaching of thinking, student interaction, and the use of instructional technologies will be modeled and practiced. Application of skills in the field as required. <i>Prerequisite: Successful completion of the Primary (P-5) Methods I block. Corequisite: Other courses in the Primary (P-5) Methods II block.</i> | | |
| EDEC-4450 Primary (P-5) Field Experience II —Fa, Sp | 3 hours | |
| Teacher candidates spend 20–25 days in an elementary classroom, grades 1–5, including 17–22 days teaching mathematics, social studies, and science. This field experience provides theory-driven application to instruction with an emphasis on reflective teaching and collegial teamwork. Teacher candidates are formally supervised and evaluated by University supervisors. This course requires a current Ohio FBI Background Clearance Report to be on file with the School of Education for the duration of the field experience. <i>Prerequisite: Successful completion of the Primary (P-5) Methods I block. Corequisite: Other courses in the Primary (P-5) Methods II block.</i> (Fee: \$45) | | |
| EDEC-4880 Topics in Primary (P-5) Education —Fa, Sp, Su | 1–3 hours | |
| Selected topics in primary (P-5) education that will complement or extend existing courses or expose candidates to topics not taught in other courses; may be proposed by a P5ED faculty or student. <i>Prerequisites: Faculty advisor and instructor's permission.</i> | | |
| EDEC-4900 Student Teaching and Seminar: Primary (P-5) —Fa, Sp | 12 hours | |
| A teaching experience in a primary (P-5) setting under the supervision of the mentor teacher and a university supervisor. Required seminars encourage reflection on the teaching experience, as well as discussion of issues of importance to educators. This course requires a current Ohio BCI and FBI Background Clearance Report to be on file with the School of Education for the duration of the field experience. <i>Prerequisite: Successful completion of the Primary (P-5) Methods II block.</i> (Fee: \$400) | | |
| Middle Childhood Education (EDMC) | | |
| EDMC-2800 Developmental Issues in Young Adolescents —Su | 2 hours | |
| 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. | | |

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| EDMC-3500 | 4 hours | EDMC-3970 Middle School Clinical (Grades 4–5)–Su | 2 hours |
| Principles of Teaching Middle School–Sp | | 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. <i>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.</i> | |
| 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). <i>Prerequisite: Admission to the Teacher Education Program. Corequisite: Other courses in the M.C. Methods I block. (Fee:\$20)</i> | | | |
| EDMC-3550 | 3 hours | EDMC-3990 | 1–3 hours |
| Curriculum and Instruction for Grades 4 and 5–Su | | Independent Study in Middle Childhood Education–Fa, Sp, 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. <i>Prerequisite: Admission to Early Childhood Education Endorsement program. Corequisite: Enrollment with EDMC-2800 Development Issues in Young Adolescents and EDMC-3970 Middle school clinical (Grades 4–5).</i> | | An investigation of contemporary topics in middle childhood education through reading, writing, or creative projects. | |
| EDMC-3600 | 3 hours | EDMC-4000 | 3 hours |
| Phonics and the Structure of Language–Sp | | Reading and Writing in the Disciplines: | |
| 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. <i>Prerequisite: Admission to the Teacher Education Program. Corequisite: Other courses in the M.C. Methods I block.</i> | | Middle Childhood–Fa | |
| EDMC-3700 | 4 hours | 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. <i>Prerequisite: successful completion of the M.C. Methods I block. Corequisite: Other courses in the M.C. Methods II block.</i> | |
| Teaching Reading Through Middle Childhood Literature–Sp | | EDMC-4100 | 3 hours |
| In this course students examine major theories and seminal works related to reading instruction for upper elementary and adolescent students. Within the context of multicultural literature and other genres of literature, students are introduced to comprehension strategies, informal assessments, differentiated instruction, the creation of literate environments, and professional teaching and literacy standards. <i>Prerequisite: Admission to the Teacher Education Program. Corequisite: Other courses in the M.C. Methods I block.</i> | | Teaching Mathematics: Middle Childhood–Fa | |
| EDMC-3800 | 3 hours | In this course, teacher candidates will examine major theories, seminal works, and instructional strategies associated with learning-centered teaching practices for middle childhood mathematics. Using a variety of current P–12 curricula and standards from NCTM, InTASC, and AMLE, and Ohio learning standards, teacher candidates will develop and implement lesson plans, a variety of assessments, classroom appropriate technology, critical thinking techniques, and differentiation to meet the needs of learners. <i>Prerequisite: Successful completion of the M.C. Methods I block. Corequisite: Other courses in the M.C. Methods II block.</i> | |
| Writing Process and Language Arts Methods for Middle Childhood–Fa | | EDMC-4125 | 3 hours |
| An introduction to the instructional strategies and resources for teaching, assessing, and supporting the language arts development at the middle school level based on NCTE, InTASC, and Ohio's learning standards for English/language arts. Teacher candidates will implement ELA strategies, technology, and 21st century skills to meet the needs of all students in a middle school field experience. <i>Prerequisite: admission to the Teacher Education Program. Corequisite: Other courses in the M.C. Methods II block. (Fee:\$55)</i> | | Topics in Middle Childhood Mathematics–Fa | |
| EDMC-3950 | 2 hours | In this course, teacher-candidates will examine middle childhood mathematical concepts through in-depth problem solving strategies. Teacher-candidates will develop current classroom technology practices, critical thinking and questioning techniques, and relevant conceptual and procedural knowledge tasks in order to advance learning for all learners. <i>Prerequisite: EDUC-2800 Principles of Mathematics II.</i> | |
| Middle Childhood Field Experience: Teaching Reading–Sp | | EDMC-4200 Teaching Science: Middle Childhood–Fa | 3 hours |
| This experience provides for implementation of instructional strategies for teaching reading in a middle childhood setting. Teacher candidates are formally supervised and evaluated by mentor teachers and university supervisors based on the OSTP, InTASC, and AMLE standards. <i>Prerequisite: Admission to the Teacher Education Program. Corequisite: Other courses in the M.C. Methods I block. (Fee: \$45)</i> | | An introduction to the professional knowledge, skills, methods and instructional strategies required for teaching middle school science, based on Ohio Educator Standards, AMLE teacher preparation standards and NSTA science teacher preparation standards within the context of a biblical framework. Emphasis is on the facilitation of learning and innovation skills for middle school students. <i>Prerequisite: Successful completion of the M.C. Methods I block. Corequisite: Other courses in the M.C. Methods II block. (Fee: \$95).</i> | |
| EDMC-4300 | 3 hours | EDMC-4300 | 3 hours |
| Teaching Social Studies: Middle Childhood–Fa | | 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. <i>Prerequisite: Successful completion of the M.C. Methods I block. Corequisite: Other courses in the M.C. Methods II block. (Fee: \$95)</i> | | 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. <i>Prerequisite: Successful completion of the M.C. Methods I block. Corequisite: Other courses in the M.C. Methods II block. (Fee: \$95)</i> | |



EDMC-4440 Middle Childhood Field Experience II–Fa 2 hours

This clinical experience allows the teacher candidate to apply the theories, principles, and techniques provided in the associated methods courses. This course requires a current Ohio FBI Background Clearance Report to be on file with the School of Education for the duration of the field experience. *Prerequisite: Successful completion of the M.C. Methods I block. Corequisite: Other courses in the M.C. Methods II block. (Fee: \$45)*

EDMC-4880 1–3 hours

Topics in Middle Childhood Education–Fa, Sp, Su

Selected topics in middle childhood education that will complement or extend existing courses or expose candidates to topics not taught in other courses; may be proposed by an EDMC faculty or student. *Prerequisites: Faculty advisor and instructor's permission.*

EDMC-4900 12 hours

Student Teaching and Seminar: Middle Childhood–Fa, Sp

A teaching experience in a middle childhood setting under the supervision of the mentor teacher and the University supervisor. Required seminars encourage reflection on the teaching experience as well as discussion of issues of importance to educators. This course requires a current Ohio FBI Background Clearance Report to be on file with the School of Education for the duration of the field experience. *Prerequisite: Successful completion of the M.C. Methods II block. (Fee: \$400)*

Adolescent / Young Adult Education (EDSE)

EDSE-3000 4 hours

Principles of Teaching: Adolescent and Young Adult Learners–Sp

Teacher candidates learn to develop student-centered instruction based on observable learning outcomes aligned with curriculum guides, with emphasis on instructional models most appropriate for adolescent to young adult (7–12th grade) students implementing the use of 21st century skills and instructional technology. The course examines, analyzes, and utilizes a variety of teaching strategies, assessments, and classroom management to facilitate differentiated student-centered instruction for all students. Includes an in-school experience. *Prerequisite: Admission to the Teacher Education Program as an AYA or MASPN candidate. (Fee:\$45)*

EDSE-3300 Developmental Reading–Sp 3 hours

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 the dean. (Fee: \$30)*

EDSE-3900 Music Education Field Experience–Fa, Sp 2 hours

This supervised experience in a K–12 school prepares the teacher candidate for the student teaching experience by providing an opportunity to practice teaching methods. Candidates will be evaluated and must show potential to be successful in student teaching to receive credit. *Prerequisites: Admission to the Teacher Education Program and completion of or concurrent registration in MUED-3710 Music for Early Childhood; and/or MUED-3720 Music for Adolescent/Young Adults. (Fee: \$30)*

EDSE-3990 1–3 hours

Independent Study in Adolescent and Young Adult Education–Fa, Sp, Su

An investigation of contemporary topics in adolescent and young adult education through reading, writing, or creative projects.

EDSE-4450 2 hours

Adolescent/Young Adult Field Experience–Fa

An opportunity for the implementation of the objectives, skills, and instructional strategies in a setting appropriate for each discipline area. Teacher candidates teach two–three periods a day for five weeks. *Prerequisite: Admission to the Teacher Education Program. Corequisites: Other courses in the Adolescent and Young Adult Principles of Teaching block. (Fee: \$45)*

EDSE-4880 1–3 hours

Topics in Adolescent and Young Adult Education–Fa, Sp, Su

Selected topics in adolescent and young adult education that will complement or extend existing courses or expose candidates to topics not taught in other courses; may be proposed by an EDSE faculty or student. *Prerequisite: Faculty advisor or instructor's permission.*

EDSE-4900 12 hours

Student Teaching and Seminar: Adolescent / Young Adult–Fa, Sp

A teaching experience in an adolescent/young adult setting under the supervision of the mentor teacher and the University supervisor. Required seminars encourage reflection on the teaching experience, as well as discussion of issues of importance to educators. (Fee: \$400)

Special Education (EDSP)

EDSP-2100 Exceptionalities and Behavior–Fa, Sp 2 hours

Reviews the historical sequence leading to the mandates in special education. Explores implications of federal law with an emphasis on the definitions and characteristics of exceptionalities and various philosophies regarding the education of students with exceptional learning needs. Strategies of inclusion are discussed. Includes an introduction to nondiscriminatory evaluation and functional assessment of individuals with exceptionalities and the use of assistive technologies for enabling instruction. The course will present a rational and pragmatic approach to general classroom management. Throughout the course, emphasis will be given to the Positive Behavior and Intervention Support (PBIS) framework, establishing rules, preventing behavior problems, and teaching social skills. Students will complete a minimum of 15 hours in a field experience with persons with an exceptional learning need.

EDSP-2400 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 hour

Survey of Intellectual and Developmental Disabilities–Fa, Sp

Survey of the multidisciplinary perspectives, identification, early influences, causation, levels of support, and practices related to the education of individuals with intellectual and developmental disabilities in early childhood. *Prerequisites: EDSP-2100 Exceptionalities and Behavior; or may be taken concurrently with EDSP-2100 Exceptionalities and Behavior.*

EDSP-2700 2 hours

Teaching Children with Mild to Moderate Disabilities–Fa

An overview of mild to moderate disabilities with a focus on instructional strategies and accommodations for students in inclusive settings. *Prerequisite: TEP Acceptance, Primary (P–5) Methods I.*

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| EDSP-3100 | 3 hours | EDSP-4150 | 3 hours |
| Diagnostics and Intervention in Reading–Fa, Sp | | IEP Development and Student Transitions Throughout the K-12 Experience–Fa | |
| 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. | | This course prepares candidates with the skills and knowledge to develop Individualized Education Programs for students with exceptionalities across K-12 grade levels. An emphasis will be on the IEP development as well as working with families to provide successful student transitions throughout the educational experience, focusing on educational issues, independent living preparation, community living skills, and vocational preparation. | |
| <i>Prerequisite: EDEC-2300 Phonics and the Reading Process. For Primary (P-5) majors. Corequisite: Other courses in the Methods I block. (Fee: \$20)</i> | | <i>Prerequisite: Admission to the Teacher Education Program. Corequisite: Other courses in the Special Education block. (Fee: \$20)</i> | |
| EDSP-3150 | 3 hours | EDSP-4250 | 2 hours |
| Intervention and Diagnosis in Reading for Special Educators–Sp | | Communication, Collaboration, and Inclusion–Fa, 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. <i>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)</i> | | 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. | |
| EDSP-3500 Special Education Law–Fa | 1 hour | <i>Prerequisite: Admission to the Teacher Education Program and completion of Methods I.</i> | |
| An overview of special education law with an emphasis on the history of the law and children with disabilities and understanding the implementation and accountability mechanisms of inclusive education. | | EDSP-4300 | 2 hours |
| EDSP-3950 | 3 hours | Behavioral and Instructional Management–Fa | |
| Special Education Field Experience: Primary (P-5)–Fa, Sp | | A study of behavior management concepts and techniques for teachers of special education. <i>Prerequisite: Open only to degree-seeking students.</i> | |
| This school-based experience allows teacher candidates to design and teach Language-Arts and Reading lessons to P-5 students with and without mild-moderate needs in an inclusive classroom setting. Teacher candidates apply research-based strategies and develop initial skills related to administering and analyzing assessments, classroom practice and technology/media applications. This course requires a current Ohio FBI Background Clearance Report to be on file with the School of Education for the duration of the field experience. <i>Prerequisites: Admission to the Teacher Education Program; major in special education. Corequisite: Other courses in the Primary (P-5) Methods I block. (Fee: \$45)</i> | | EDSP-4400 Assessment in Special Education–Fa | 2 hours |
| EDSP-4100 Adaptive Curriculum and Instruction–Fa | 2 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. Students will use the information from these assessments to develop an evaluation team report. <i>Prerequisite: Admission to the Teacher Education Program. Corequisites: Other courses in the Special Education block.</i> | |
| An introduction to the curriculum, intervention strategies, instructional materials, and educational technology used with students with mild-moderate special educational needs. | | EDSP-4450 | 3 hours |
| <i>Prerequisite: Admission to the Teacher Education Program. Corequisite: Other courses in the Special Education block.</i> | | Special Education Field Experience: Middle Childhood–Fa, Sp | |
| EDSP-4125 | 1 hour | An opportunity to implement the objectives, skills, and instructional strategies for teaching mathematics, science, and social studies to students with mild to moderate needs at the middle childhood level. This course requires a current Ohio FBI Background Clearance Report to be on file with the School of Education for the duration of the field experience. <i>Prerequisite: Successful completion of the Primary (P-5) Methods I block. Corequisites: Other courses in the Primary (P-5) Methods II block. (Fee: \$45)</i> | |
| Middle School Mathematics Topics for Special Educators–Fa | | EDSP-4550 | 3 hours |
| 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. <i>Prerequisite: EDUC-2800 Principles of Mathematics II.</i> | | Special Education Field Experience: Adolescent and Young Adult–Fa | |
| | | An opportunity to use the skills learned developing and implementing individualized educational plans and behavior intervention strategies for adolescent and young adult students with mild to moderate special educational needs. This course requires a current Ohio FBI Background Clearance Report to be on file with the School of Education for the duration of the field experience. <i>Prerequisite: Admission to the Teacher Education Program. Corequisite: Other courses in the Special Education block. (Fee: \$30)</i> | |
| EDSP-4880 | | 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. | |
| | | <i>Prerequisites: Faculty advisor and instructor's permission.</i> | |

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| EDSP-4900 | | 12 hours | EDUC-2500 Educational Psychology –Fa, Sp | 3 hours |
| Student Teaching and Seminar: Special Education | | | 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. <i>Prerequisite or Corequisite: EDUC-1000 The Education Profession; or with permission of instructor.</i> | |
| A teaching experience for special education only majors with students who have mild–moderate special educational needs under the supervision of the cooperating teacher and the University supervisor. Seminars encourage reflection on the teaching experience as well as discussion of issues of importance to educators. This course requires a current Ohio BCI and FBI Background Clearance Report to be on file with the School of Education for the duration of the field experience. <i>Prerequisite: Successful completion of the Primary (P–5) Methods II and Special Education blocks. (Fee: \$400)</i> | | | | |
| Education (EDUC) | | | | |
| EDUC-1000 The Education Profession –Fa, Sp | | 2 hours | EDUC-2600 Topics in Children's Literature –Su | 3 hours |
| An introduction to the social and historical context of the teaching profession, current issues, and requirements for teacher licensure. Focus is on 1) Historical context for American education; 2) Cultural diversity overview; 3) Twenty-first century skills; 4) Stages of teacher preparation and development including dispositional requirements; 5) School and curricular models; 6) Foundations of classroom practice; 7) Laws and ethics. Fifteen (15) hours built-in field experience required. <i>Prerequisite: Declared major in an Ohio licensure-seeking program. (Fee: \$159)</i> | | | 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. <i>Prerequisite: EDUC-2400 Children's Literature or permission of the dean.</i> | |
| EDUC-1050 | | 0 hours | EDUC-2800 Principles of Mathematics II –Fa, Sp | 3 hours |
| Preliminary Student Involvement –Fa, Sp, Su | | | 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. <i>Prerequisite: EDUC-1800 Principles of Mathematics I (or an ACT Math subscore of 23 or higher or SAT Quantitative subscore of 570 or higher).</i> | |
| EDUC-1800 Principles of Mathematics I –Fa, Sp | | 3 hours | EDUC-3100 | 3 hours |
| 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. <i>Prerequisite: EDUC-1000 The Education Profession or permission of instructor.</i> | | | 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. <i>Prerequisite: ENG-1400 Composition.</i> | |
| EDUC-2050 Teaching Diverse Learners –Fa, Sp | | 2 hours | EDUC-3200 | 1 hour |
| 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. | | | An introduction into the principles and practices of biblical integration for the middle and secondary school setting. 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. Crosslisted with EDEC-3200 Faith and Learning Alignment (P–5). <i>Prerequisite: EDUC-3100 Philosophical Foundations of Education. Corequisite: Enrollment in appropriate methods of teaching course for licensure area.</i> | |
| EDUC-2100 e-Learning for Educators –Fa, Sp | | 3 hours | EDUC-3570 Supervised Field Experience | 1–3 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) | | | A 30–90 clock hour supervised placement in an early, middle, and/or adolescent/young adult classroom. Designed to give a transfer teacher candidate, an early childhood education candidate seeking a Reading Endorsement, or a teacher candidate repeating other field experiences the necessary P–12 supervised experience needed to meet program requirements. (Fee: \$30) | |
| EDUC-2300 Assessment and Differentiation –Fa, Sp | | 2 hours | EDUC-3620 | 3 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. <i>Prerequisites or Corequisite: EDSP-2100 Exceptionalities and Behavior, or enrollment in the Bible teacher education minor.</i> | | | Intensive Multisensory Literacy Instruction I –Fa | |
| EDUC-2400 Children's Literature –Fa, Sp | | 3 hours | This course is an introduction to the basic understandings of reading difficulties and dyslexia and provides an approach to the remediation of reading difficulties using an intensive multisensory method inspired by Orton and Gillingham. (Fee: \$75) | |
| 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. <i>Prerequisite: EDUC-1000 The Education Profession.</i> | | | | |

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| EDUC-3630 | Intensive Multisensory Literacy Instruction II–Sp | 3 hours | EDUC-4950 | 12 hours |
| | This course is a sequel to EDUC-3620 Intensive Multisensory Literary Instruction I and provides further understandings of reading difficulties and dyslexia and provides an approach to the remediation of reading difficulties using an intensive multisensory method inspired by Orton and Gillingham. Students assess a K-12 student's reading achievement and plan and teach 1:1 lessons using structured procedures. This course has an embedded clinical experience. <i>Prerequisite: EDUC-3620 Intensive Multisensory Literacy Instruction I.</i> (Fee:\$75) | | Student Teaching and Seminar in Special Education and Primary (P–5)–Fa, Sp | |
| EDUC-3990 Independent Study in Education | 1–3 hours | | A full semester teaching experience with significant exposure in both special education and primary (P–5) education settings. The student teacher will work under the supervision of cooperating teachers and University supervisors in each field. Seminars encourage reflection upon the teaching experience and discussion of issues of importance to educators. This course requires a current Ohio BCI and FBI Background Clearance Report to be on file with the School of Education for the duration of the field experience. (Fee: \$400) | |
| EDUC-4000 | 3 hours | | | |
| Reading and Writing in Disciplines: AYA and Multi-Age–Fa | | | Civil Engineering (EGCE) | |
| An introduction to the range of strategies for teaching reading within disciplinary content areas related to adolescent and young adult and multi-age Spanish, physical education, health education, and music education licensure programs. This course addresses the reading process, assessment techniques, instructional strategies to improve comprehension, academic language, and Ohio dyslexia standards. This course will be taught in online format. <i>Prerequisite: Admission to the Teacher Education Program or Senior status and permission of the dean.</i> | | | EGCE-1920 Introduction to Civil Engineering–Sp | 2 hours |
| EDUC-4850 Internship in Applied Education | 3–12 hours | | Introduction to the civil engineering profession. Course will cover the breadth of the civil profession and include a survey of major civil engineering sub-disciplines. Professional practice topics including career paths, ethics, professional engagement, teamwork, communication, design processes, and legal aspects of civil engineering practice will be introduced. The integrated lab will provide introduction to civil engineering drawing and will include a class project to introduce concepts of project-based engineering. <i>Prerequisite: EGGN-1110 The Engineering Profession.</i> (Fee:\$100) | |
| EDUC-4880 | 12 hours | | EGCE-2320 Principles of Surveying–Fa | 2 hours |
| Student Teaching (Nonlicensure) and Seminar–Sp | | | Surveying is an essential element in civil engineering planning, design, construction, and monitoring processes. Lectures will introduce the skills, knowledge, and roles of surveyors, and will seek to develop understanding of basic surveying principles and basic interpretation of graphical data. Laboratory exercises will enable students to apply presented materials in a physical context, developing basic skill in performing survey work. <i>Prerequisite: EGCE-1920 Intro to Civil Engineering.</i> (Fee:\$100) | |
| 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. <i>Prerequisite: Completion of all TEP requirements except internship.</i> (Fee: \$80) | | | EGCE-2410 Civil Engineering Materials–Fa | 4 hours |
| EDUC-4900 | 12 hours | | Introduction to the behavior of steel, concrete, wood, polymers, and asphalt as they apply to civil engineering and construction applications. Topics will include material response to mechanical loading and environment conditions in order to explain possible modes of failure when materials are placed into service. Integrated lab component provides hands-on experience in the characterization and testing of civil engineering materials. Emphasis will be placed on characterization of materials to internationally recognized standards. Testing techniques and quality control will also be introduced in lectures and developed in laboratory exercises. <i>Prerequisite: EGCE-1920 Introduction to Civil Engineering.</i> (Fee: \$100) | |
| Student Teaching and Seminar: Multi-Age–Fa, Sp | | | EGCE-3110 Geotechnical Engineering–Sp | 4 hours |
| A teaching experience working with students in a range of age levels under the supervision of the mentor teacher and the University supervisor. Seminars encourage reflection on the teaching experience as well as discussion of issues of importance to educators. This course requires a current Ohio BCI and FBI Background Clearance Report to be on file with the School of Education for the duration of the field experience. Capstone for the Multi-Age Physical Education Major. (Fee: \$400) | | | Characteristics and classification of geological materials; physical, mechanical, and hydraulic properties of soil and rock; issues such as seepage, consolidation, stress distribution, and settlement will all undergo analyses. Integrated laboratory work in soil classification and soil mechanics. <i>Prerequisites: EGCE-2410 Civil Engineering Materials; EGME-2530 Statics and Mechanics of Materials.</i> (Fee:\$100) | |
| EDUC-4910 Special Student Teaching | 3–10 hours | | EGCE-3210 Introduction to Hydraulic Engineering–Fa | 3 hours |
| Occasionally, unusual situations arise that entail special provisions (e.g., summer school student teaching for experienced teachers, repeated experiences, etc.). (Fee: \$100) | | | Collection and distribution of water; flow of fluids through orifices and weirs; laminar and turbulent flows in closed conduits and open channels; model analysis using the principles of dimensional analysis; rainfall and runoff. <i>Prerequisites: EGME-2530 Statics and Mechanics of Materials; MATH-2710 Calculus III; PHYS-2110 General Physics.</i> | |



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| EGCE-3220 Design of Water Distribution Systems–Sp 4 hours Extension of fundamental hydraulics theory into design practice for commonly encountered problems in civil engineering hydraulic systems and structures. Basic concepts of hydraulics, including unsteady pipelines, open channel flows, loose boundary hydraulics, and coastal hydraulics are reviewed, extended, and applied to a variety of practical systems. <i>Prerequisite: EGCE-3210 Introduction to Hydraulic Engineering.</i> (Fee:\$100) | EGCE-4220 Hydrology–Sp 3 hours Applications-focused introduction to engineering hydrology and hydrologic design covering a range of important surface and groundwater hydrological processes. Includes statistical analyses in the context of hydrologic problem-solving, components of the hydrologic budget, hydrograph analysis and routing, groundwater hydrology, urban hydrology, and hydrologic modelling. <i>Prerequisite: EGCE-3210 Intro to Hydraulic Engineering.</i> |
| EGCE-3410 Construction Engineering–Fa 3 hours This course focuses on construction engineering issues associated with the implementation of designed civil systems. The aim is to provide the student with an understanding of the range of construction equipment and techniques in common use, as well as the planning and direction of construction works. Addresses projects of various scales, focusing on common factors such as utilization of workers, machines and materials, and requirements for project organization and control. The material covers both construction techniques, construction management, and project documentation. <i>Corequisite: EGCE-2320 Principles of Surveying</i> | EGCE-4510 Reinforced Concrete Design–Fa 4 hours Extension of structural design techniques to the design of concrete structures and elements, concrete technology, analysis and design of reinforced concrete beams, slabs, columns, footings, and walls. Different types of reinforced concrete floor systems and the fundamentals of prestressed concrete structures. Structural loadings, including wind and seismic loadings. Includes integrated lab component with design, build and test activities and the use of computer based design software. Course includes major class project. <i>Prerequisite: EGCE-3520 Design of Steel Structures.</i> (Fee:\$100) |
| EGCE-3510 Structural Analysis–Fa 3 hours Structural analysis of statically determinate and indeterminate systems; deflections, energy methods, and force method; column stability. <i>Prerequisite: EGME-2530 Statics and Mechanics of Materials.</i> | EGCE-4520 Design of Wood Structures–Sp 3 hours Extension of structural design theory to cover design of wooden structures. Examination of both ASD and LRFD design criteria and both national and international design codes. Includes structural detailing and computer based structural analysis. <i>Prerequisites: EGCE-3520 Design of Steel Structures</i> (Fee:\$100) |
| EGCE-3520 Design of Steel Structures–Sp 4 hours Introduction to structural design practice in steel. Topics include estimating structural loads, design of individual members, and structural connection design. Course focuses on design practice in accordance with nationally recognized codes for both structural steel design and load estimation. Includes integrated lab component covering structural detailing and use of computer-based design software. Course includes major class project. <i>Prerequisite: EGCE-3510 Structural Analysis.</i> (Fee:\$100) | EGCE-4610 Design of Water Treatment Systems–Fa 4 hours Design of systems for the delivery of safe and reliable water supplies and the effective treatment of wastewater. Includes coverage of topics such as water processing, distribution, wastewater collection, wastewater treatment and sludge processing. Integrated lab includes the development of assessment techniques for the evaluation of water quality, and system function. <i>Prerequisites: BIO-2210 Microbiology EGCE-3220 Design of Water Distribution Systems; EGCE-3610 Environmental Engineering.</i> (Fee:\$100) |
| EGCE-3610 Environmental Engineering–Fa 4 hours Emphasizes chemical, ecological, and hydrological fundamentals in order to solve environmental engineering problems related to water quality, air pollution, solid and hazardous waste management, sustainability, and risk management. Experiments in water, soil, and air quality and chemistry will be performed. <i>Prerequisites: CHEM-1050 Chemistry for Engineers; EGCE-2410 Civil Engineering Materials.</i> (Fee:\$100) | EGCE-4620 3 hours Environmental Management and Policy Development–Sp Course focuses on developing a comprehensive understanding of existing environmental laws and institutions related to environmental policy. The course includes a historical overview of environmental law and policy, current requirements, and emerging policy issues both within the United States and at broader international levels. The course includes coverage of public trust doctrine, environmental impact assessment, pollution control, water resources, climate change, population, and biodiversity. <i>Prerequisite: EGCE-3610 Environmental Engineering.</i> |
| EGCE-3620 Air Pollution Management and Design–Sp 4 hours Course focuses on developing an understanding of the sources, fates, and effects of various airborne contaminants. There will be an emphasis on the design and analysis of engineering treatment systems and control of these contaminants in various operational scenarios. Includes integrated lab component covering assessment, and measurement of airborne contaminants, mitigation assessment and the use of computer-based design and modeling software. Course includes major class project. <i>Prerequisites: EGCE-3610 Environmental Engineering</i> (Fee:\$100) | EGCE-4810 Civil Engineering Senior Design I–Fa 3 hours This is the senior capstone design project for civil engineers. Student teams work on a design project to find a solution consistent with stated specifications using principles studied in previous courses. Work will include writing a proposal and performing background research during a mid-term design review and end-of-semester formal oral presentation. A progress report is also required at semester's end. <i>Prerequisite: completion of one Level II civil engineering design elective; and EGCE-3110 Geotechnical Engineering.</i> (Fee:\$100) |
| EGCE-3710 Transportation Engineering–Fa 3 hours Transportation systems; transportation planning and future development; design and analysis of transportation facilities including traffic operations, highway geometry, and pavement. <i>Prerequisites: EGCE-2410 Civil Engineering Materials.</i> | EGCE-4820 Civil Engineering Senior Design II–Sp 3 hours This is a continuation of EGCE-4810 Civil Engineering Senior Design I. Students are required to present an end-or-semester formal oral presentation. A final report is also required at semester's end. <i>Prerequisite: EGCE-4810 Civil Engineering Senior Design I.</i> (Fee:\$100). |
| EGCE-3910 Civil Engineering Management–Sp 2 hours This course focuses on engineering economics, project management, human resource management, contracting, and legal considerations related to professional civil engineering practice. <i>Prerequisites: ECON-2110 Essentials of Economics; EGCE-1920 Introduction to Civil Engineering.</i> | |

EGCE-4910 Civil Engineering Practice–Sp 1 hour

Course aimed at providing students with an understanding of professional civil engineering practice in contemporary society. Regular classroom discussions will be supplemented by visiting professional engineers who will share practical insights from their professional experience. Issues will include professional licensure, ongoing professional development, workplace practice, and legal issues. Several case studies of recent engineering projects will be included to illustrate issues. *Prerequisite: Senior standing and students must be scheduled to graduate prior to the end of calendar year.*

EGCE-4920 Infrastructure for Developing Contexts–Sp 3 hours

Course focuses on the creation and implementation of infrastructure development plans for under-developed contexts. Topics include needs identification and assessment, appropriate technology theory, cultural adaptation, resource management, regulatory controls and legal issues, and long-term sustainability. *Prerequisites: EGCE-3220 Design of Water Distribution Systems; EGCE-3410 Construction Engineering; EGCE-3520 Design of Steel Structures.* (Fee:\$100)

Computer Engineering (EGCP)
EGCP-1010 Digital Logic Design–Fa, Sp 3 hours

Introduction to digital logic design, number systems, Boolean algebra, Karnaugh maps, computer simulation tools, combinational network design, flip flops, counters, state machines, and sequential networks. Circuits are designed in class and are built and evaluated in the laboratory. Two lecture hours and one two-hour laboratory per week. (Fee: \$100)

EGCP-2120 Microcontrollers–Fa 3 hours

Introduction to the fundamentals of microcontrollers and embedded systems, including microcontroller architecture, assembly and C programming, peripheral interfacing, data communications, and the cybersecurity concerns associated with microcontrollers and embedded systems. *Prerequisite: EGCP-1010 Digital Logic Design; CS-1210 C++ Programming.* (Fee: \$100)

EGCP-3010 Advanced Digital Logic Design–Sp 3 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-4110 Digital Signal Processing–Fa 3 hours

Introduction to digital signal processing with emphasis on FIR and IIR filter design. Other topics include Z-transforms, Fourier Transforms, discrete-time systems, and finite word-length effects. The implementation of filters in embedded systems is introduced. Design project required. Crosslisted with EGEE. *Prerequisites: EGEE-3110 Linear Systems; CS-1210 C++ Programming.*

EGCP-4210 Advanced Computer Architecture–Fa 3 hours

Advanced study of computer architecture with an emphasis on performance, performance metrics, benchmarks, integer and floating point concepts, data-path and control, super-scalar processing and pipelining, memory hierarchy, I/O and peripherals, vector, array and parallel processors, and multiprocessors.

Prerequisites: CS-2210 Data Structures Using Java; 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 hours

This course is an introduction to computer networking. The course will present the layered network architecture of the internet and examine the services and functions that each layer performs. The well-known protocols of each layer will be explored in-depth through written homework, programming assignments, and packet-capture labs (using Wireshark, for example). Important fundamental networking topics will be emphasized such as packet switching, addressing, performance measurement, reliable data transfer, and routing. Additional topics such as peer-to-peer networking, wireless and mobile networking, and the history of the internet will also be addressed. *Prerequisites: CS-2210 Data Structures Using Java; Corequisite: CS-3310 Operating Systems.* (Fee: \$50)

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| EGCP-4410 Parallel Computing–Fa | 3 hours | EGEE-2050 Circuits and Instrumentation–Sp | 4 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) | | 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) | |
| EGCP-4810 | 4 hours | EGEE-2110 Engineering Analysis–Sp | 3 hours |
| Computer Engineering Senior Design I–Fa | | This course introduces students to mathematical tools used by electrical engineers. Topics include theory and engineering applications of complex variables, linear algebra, and probability and statistics as well as the numerical solution of basic differential equations. Students are introduced to the Matlab computing environment. Prerequisites: CS-1210 C++ Programming; MATH-1720 Calculus II. Corequisites: MATH-2740 Differential Equations. | |
| 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) | | EGEE-3110 Linear Systems–Fa | 3 hours |
| EGCP-4820 | 4 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. | |
| Computer Engineering Senior Design II–Sp | | EGEE-3150 Analog Filters–Sp | 3 hours |
| 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) | | 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) | |
| EGCP-4950 | 1–3 hours | EGEE-3210 Electronics I–Fa | 3 hours |
| Advanced Topics in Computer Engineering | | Introduction to semiconductor electronic device theory and applications. Topics include ideal and nonideal operational amplifiers, diodes, field-effect transistors (FETs), and bipolar-junction transistors (BJTs). Two lecture hours and one two-hour laboratory or recitation per week. Prerequisite: EGEE-2010 Circuits. (Fee: \$100) | |
| 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. | | EGEE-3220 Electronics II–Sp | 5 hours |
| Electrical Engineering (EGEE) | | 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-2010 Circuits–Sp | 5 hours | EGEE-3310 Electromagnetics–Sp | 3 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) | | Engineering applications of vector calculus, phasors, and Maxwell's equations to electrostatic, magnetostatic and time varying fields, transmission lines, Smith Chart, propagation of uniform plane waves, and single-stub matching. Laboratory exercises introduce field-plotting, transmission line concepts using wave guides, single stub-tuning, introduction to the network analyzer, polarization, and radiation fields. Two lecture hours and one two-hour laboratory or recitation period per week. Prerequisites: MATH-2710 Calculus III; EGEE-2010 Circuits. (Fee: \$100) | |
| EGEE-3330 Communications Theory–Sp | 4 hours | EGEE-3330 Communications Theory–Sp | 4 hours |
| | | 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) | |

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| EGEE-3370 | 3 hours | EGEE-4120 Digital Image Processing–Sp | 3 hours |
| Probability and Random Processes for Engineers–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. <i>Prerequisites:</i> EGEE-3110 Linear Systems. (even years) | |
| Introduction to sample points, sample spaces, probability, random variables, random vectors, statistical averages, linear transformations, random processes, linear system response to stochastic input, spectral analysis with application of the central-limit theorem, and Gaussian processes to engineering problems. | | | |
| <i>Prerequisite:</i> EGEE-3110 Linear Systems. | | | |
| EGEE-3510 Power Electronics–Sp | 3 hours | EGEE-4310 RF Circuit Design–Fa | 3 hours |
| Introduction to the fundamentals of power electronics, characteristics and application of semiconductor switches, motor control, device applications, and power processing design. Design project required. <i>Prerequisite:</i> EGEE-3210 Electronics I. (odd years) | | Introduction to the characteristics of noise and nonlinearity in radio-frequency (RF) circuit, scattering parameters and two-port network model, impedance matching techniques, and the radio transmitter and receiver architecture. Topics of designing the circuit of low noise amplifier, mixers, oscillators, RF filters, and power amplifier will be covered. Student will learn to use the state-of-the-art CAD tool and vector network analyzer. <i>Prerequisites:</i> EGEE-3220 Electronics II, EGEE-3330 Communications Theory. (Fee: \$100) | |
| EGEE-3530 Electrical Machines–Fa | 3 hours | EGEE-4330 Advanced Communications and Networks–Fa | 3 hours |
| Introduction to the fundamentals of power circuits, the characteristics and analysis of transformers, the four basic types of rotating machine (DC, SM, IM, and VRM), and their control. Two lecture hours and one two-hour laboratory per week. <i>Prerequisite:</i> EGEE-2010 Circuits; or EGEE-2050 Circuits and Instrumentation. (Fee: \$100) | | 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. <i>Prerequisite:</i> EGEE-3330 Communications Theory. <i>Corequisite:</i> EGEE-3370 Probability and Random Processes for Engineers or instructor's permission. | |
| EGEE-3920 Electrical Engineering Internship | 1–3 hours | EGEE-4410 Feedback Control Systems–Fa | 4 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. <i>Prerequisites:</i> Junior or Senior engineering major status; faculty advisor's permission. | | 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. <i>Prerequisite:</i> EGEE-3110 Linear Systems. (Fee: \$100) | |
| EGEE-3950 Topics in Electrical Engineering–Fa, Sp | 1–3 hours | EGEE-4450 Digital Control Systems–Sp | 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. <i>Prerequisite:</i> Instructor's permission. | | Introduction to analysis and design of discrete-time sampled-data control systems, signal sampling, A/D and D/A conversion, quantization, application of Z-domain transfer function techniques, transient response, frequency response, stability and performance of computer controlled systems, digital compensation, and controller design. Design project required. <i>Prerequisite:</i> EGEE-4410 Feedback Control Systems. | |
| EGEE-3980 | 1–3 hours | EGEE-4510 Power Systems–Sp | 3 hours |
| Independent Study in Electrical Engineering | | 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. <i>Corequisite:</i> EGEE-3310 Electromagnetics. (Fee: \$50) (even years) | |
| 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. <i>Prerequisites:</i> Junior or Senior engineering major status and faculty advisor's permission. | | EGEE-4610 Medical Imaging–Sp | 3 hours |
| EGEE-3990 | 1–3 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. <i>Prerequisite:</i> EGEE-3110 Linear Systems. (odd years) | |
| Project Design in Electrical Engineering–Fa, Sp | | EGEE-4810 Electrical Engineering Senior Design I–Fa | 4 hours |
| 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. <i>Prerequisite:</i> Instructor's permission. | | 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. <i>Prerequisites:</i> EGEE-3220 Electronics II; EGCP-2120 Microcontrollers; EGEE-3110 Linear Systems; senior status in electrical engineering. (Fee: \$100) | |
| EGEE-4110 Digital Signal Processing–Fa | 3 hours | | |
| Introduction to digital signal processing with emphasis on FIR and IIR filter design. Other topics include Z-transforms, Fourier Transforms, discrete-time systems, and finite word-length effects. The implementation of filters in embedded systems is introduced. Design project required. Crosslisted with EGCP. <i>Prerequisites:</i> EGEE-3110 Linear Systems; CS-1210 C++ Programming. | | | |

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| EGEE-4820 | 3 hours | EGGN-3710 | 2 hours |
| Electrical Engineering Senior Design II–Sp | | Biomedical Engineering Research–Fa, Sp, Su | |
| 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. <i>Prerequisite: EGEE-4810 Electrical Engineering Senior Design I.</i> (Fee: \$100) | | 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. <i>Prerequisites: Major in engineering; minor in biomedical engineering; junior status; permission of advisor, and approval of research topic.</i> (Fee: \$150) | |
| EGEE-4950 | 1–3 hours | EGGN-3910 Co-op I | 0 hours |
| Advanced Topics in Electrical Engineering–Sp | | 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. <i>Prerequisite: Junior status in engineering or computer science and enrollment in the co-op program.</i> (Fee: \$75). | |
| 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. <i>Prerequisite: Instructor's permission.</i> | | 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. <i>Prerequisite: Junior status in engineering or computer science and enrollment in the co-op program.</i> (Fee: \$40). | |
| General Engineering (EGGN) | | EGGN-3912 Co-op IB | 0 hours |
| EGGN-1110 The Engineering Profession–Fa | 1 hour | 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. <i>Prerequisite: EGGN-3911 Co-op IA.</i> (Fee: \$40). | |
| 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-3920 Co-op II | 0 hours |
| EGGN-1960 Competition Project–Sp | 0 hours | Second term for an engineering or computer science student to work in industry for one semester. A final report is required. <i>Prerequisite: EGGN-3910 Co-op I or EGGN-3912 Co-op IB.</i> (Fee: \$75). | |
| 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-3921 Co-op IIA | 0 hours |
| EGGN-2960 Competition Project–Sp | 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 <i>Prerequisite: EGGN-3910 Co-op I or EGGN-3912 Co-op IB.</i> (Fee: \$40). | |
| 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-3922 Co-op IIB | 0 hours |
| EGGN-2980 Research Project I–Fa, Sp, Su | 0 hours | Second half of the second term for an engineering or computer science student to work in industry part time for one semester. A final report is required. Students enrolled in part-time co-op must register for six or more credit hours to maintain full-time student status. <i>Prerequisite: EGGN-3921 Co-op IIA.</i> (Fee: \$40). | |
| Engineering and computer science majors will undertake a research project under the direction of an engineering and computer science faculty mentor. Students participating on a school research project may use this course to provide on their transcript a record of their participation on a research project. | | EGGN-3930 Co-op III | 0 hours |
| EGGN-3110 Professional Ethics–Sp | 3 hours | Third term for an engineering or computer science student to work in industry for one semester. A final report is required. <i>Prerequisite: EGGN-3920 Co-op II or EGGN-3922 Co-op IIB.</i> (Fee: \$75). May be repeated. | |
| 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-3931 Co-op IIIA | 0 hours |
| EGGN-3510 Systems Optimization–Fa | 3 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. <i>Prerequisite: EGGN-3920 Co-op II or EGGN-3922 Co-op IIB.</i> (Fee: \$40). May be repeated. | |
| 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. <i>Prerequisites: MATH-2710 Calculus III; MATH-2740 Differential Equations.</i> | | EGGN-3932 Co-op IIIB | 0 hours |
| EGGN-3610 Biomedical Engineering Systems–Sp | 3 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. <i>Prerequisite: EGGN-3931 Co-op IIIA.</i> (Fee: \$40). May be repeated. | |
| 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. <i>Prerequisites: Engineering major with junior standing; BIO-1115 Biology I: Cell Biology or GBIO-1000 Principles of Biology.</i> (even years) | | | |

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| EGGN-3960 Competition Project–Sp | 0 hours | Engineering juniors on a school of engineering intercollegiate design competition may use this course to provide on their transcript a record of their participation throughout the year. The name of the competition will be designated. |
| EGGN-4010 Senior Seminar–Fa | 0 hours | Required weekly meeting of senior engineering and computer science majors to discuss the transition into the professional work environment. <i>Prerequisite: Senior status in engineering or computer science.</i> (Fee: \$35) |
| EGGN-4960 Competition Project–Sp | 0 hours | Engineering seniors on a school of engineering intercollegiate design competition may use this course to provide on their transcript a record of their participation throughout the year. The name of the competition will be designated. |
| EGGN-4980 Research Project II–Fa, Sp, Su | 0 hours | Engineering and computer science majors will undertake advanced levels of research under the direction of an engineering and computer science faculty mentor. Students participating on a school research project may use this course to provide on their transcript a record of their participation on a research project. <i>Prerequisite: EGGN-2980 Research Project I.</i> |
| Mechanical Engineering (EGME) | | |
| EGME-1810 Engineering Graphics–Fa | 1 hour | Introduction to basic techniques of sketching, drawing, dimensioning, multiple views, sectioning, multi-view projections, and pictorial views. Introduction to commercial software for three-dimensional solid modeling and preparing engineering drawings. (Fee: \$25) |
| EGME-2050 Computational Methods–Sp | 4 hours | Introduction to computer programming and the numerical methods for solving roots of equations, simultaneous linear algebraic equations, ordinary differential equations, integration, introduction to finite-difference approximations, and least-squares curve fits. <i>Pre- or Corequisites: MATH-2710 Calculus III; MATH-2740 Differential Equations.</i> |
| 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. <i>Prerequisite: EGME-2530 Statics and Mechanics of Materials.</i> (Fee: \$100) |
| EGME-2430 Contemporary Manufacturing Processes–Fa | 3 hours | 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. <i>Prerequisite: EGME-2410 Properties of Engineering Materials.</i> (Fee: \$55) |
| EGME-2510 Statics–Fa | 3 hours | Introduction to analyzing forces in isolated and connected rigid-body systems; vector analysis, forces, moments, resultants, two- and three-dimensional equilibrium, centroids, moment of inertia, friction, trusses, frames, and machines. Design project required. <i>Prerequisites: EGME-1810 Engineering Graphics; PHYS-2110 General Physics I; MATH-1720 Analytical Geometry and Calculus II.</i> (Fee: \$10) |
| EGME-2530 Statics and Mechanics of Materials–Fa | 5 hours | Introduction to analyzing forces in isolated and connected rigid-body systems; vector analysis, forces, moments, resultants, two- and three-dimensional equilibrium, centroids, distributed loading, moment of inertia, friction, trusses, frames, and machines. Introduction to the theoretical and experimental analysis of deformable bodies subject to applied loads; normal and shear stress and strain, strain energy, torsion, stresses in beams, deflection of beams, combined stress, stress transformation, failure theories, and buckling of columns. Design project required. <i>Prerequisites: EGME-1810 Engineering Graphics or EGCE-1920 Introduction to Civil Engineering; PHYS-2110 General Physics I; MATH-1720 Calculus II.</i> (Fee: \$25) |
| EGME-2570 Statics and Dynamics–Fa | 3 hours | Free-body diagrams, vectors, resultant forces, two- and three-force members, friction, simple machines, center of gravity, and moments of inertia. Kinematics and equations of motion of a particle for rectilinear and curvilinear motion. Planar kinematics of rigid bodies. Kinetics for planar motion of rigid bodies, including equations of motion and principles of energy and momentum. <i>Prerequisites: EGME-1810 Engineering Graphics; MATH-1720 Calculus II; PHYS-2110 General Physics I.</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-of-freedom systems. Design project required. <i>Prerequisite: EGME-2510 Statics or EGME-2530 Statics and Mechanics of Materials.</i> <i>Pre- or Corequisite: MATH-2740 Differential Equations.</i> (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. <i>Prerequisites: EGME-2630 Dynamics; EGEE-2050 Circuits and Instrumentation.</i> <i>Corequisites: EGME-3110 Thermodynamics; EGME-3210 Fluid Mechanics.</i> (Fee: \$100) |
| EGME-3020 Mechanical Engineering Laboratory II–Sp | 2 hours | Continuation of EGME-3010. Two two-hour laboratories per week. <i>Prerequisite: EGME-3010 Mechanical Engineering Laboratory I.</i> <i>Corequisite: EGME-3150 Heat Transfer.</i> (Fee: \$100) |
| EGME-3050 Introduction to Finite Element Analysis–Sp | 3 hours | 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. <i>Prerequisites: EGME-2050 Computational Methods; EGME-2530 Statics and Mechanics of Materials.</i> (Fee: \$25) |
| EGME-3110 Thermodynamics–Fa | 5 hours | Introduction to engineering thermodynamics, properties of pure substances, work, heat, first and second laws of thermodynamics, energy, enthalpy, and entropy. Specific application to power, refrigeration cycles, and combustion processes. <i>Prerequisites: CHEM-1050 Chemistry for Engineers; MATH-2710 Calculus III.</i> |

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| EGME-3130 Internal Combustion Engines–Sp | 3 hours | EGME-3950 | 1–3 hours |
| Introduction to internal combustion engines, fuel-air cycles, engine simulation, emissions, engine performance and alternative fuels. <i>Prerequisites:</i> EGME-2630 Dynamics; EGME-3110 Thermodynamics. | | 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. <i>Prerequisite:</i> Instructor's permission. | |
| EGME-3150 Heat Transfer–Sp | 3 hours | EGME-3980 | 1–3 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. <i>Prerequisites:</i> EGME-3110 Thermodynamics; EGME-3210 Fluid Mechanics. <i>Corequisite:</i> EGME-2050 Computational Methods. | | Independent Study in Mechanical Engineering | |
| EGME-3170 Thermal Systems–Sp | 2 hours | 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. <i>Prerequisites:</i> Junior or Senior engineering major status; faculty advisor's permission. | |
| 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. <i>Prerequisites:</i> CHEM-1050 Chemistry for Engineers; MATH-2740 Differential Equations. | | EGME-3990 | 1–3 hours |
| EGME-3210 Fluid Mechanics–Fa | 3 hours | Project Design in Mechanical Engineering | |
| Introduction to fluid properties, fluid statics, and the concepts, definitions, and basic equations for subsonic fluid dynamics; Navier-Stokes equation, viscous and inviscid fluid flows, potential flow analysis, boundary layers, laminar and turbulent flows, analytical and computational solutions, vector fields, and finite-integral-control-volume method. <i>Prerequisites:</i> MATH-2710 Calculus III; MATH-2740 Differential Equations. | | 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. <i>Prerequisite:</i> Instructor's permission. | |
| EGME-3430 Principles of Physical Metallurgy–Sp | 3 hours | EGME-4060 | 3 hours |
| Introduction to the physical and mechanical properties of metals and alloys; crystal structure, phase equilibria, defects, strengthening mechanisms, and kinetics of reactions. <i>Prerequisite:</i> EGME-2410 Properties of Engineering Materials. | | Computational Fluid Dynamics–Sp | |
| EGME-3450 Plastic and Composite Materials–Sp | 2 hours | Finite difference and finite volume methods. Numerical methods and their consistency, accuracy, stability, boundedness, and efficiency. Navier-Stokes equation solution methods. Intelligent use of commercial grid-generation and CFD software to solve practical engineering fluid flow problems. <i>Prerequisites:</i> EGME-2050 Computational Methods; EGME-3210 Fluid Mechanics. (Fee: \$50) | |
| 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. <i>Prerequisite:</i> EGME-2410 Properties of Engineering Materials. | | EGME-4160 Radiation and Solar Energy–Fa | 2 hours |
| EGME-3610 | 3 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. <i>Prerequisite:</i> EGME-3150 Heat Transfer. | |
| Kinematics and Design of Machines–Sp | | EGME-4210 Aerodynamics–Sp | 2 hours |
| 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. <i>Prerequisite:</i> EGME-2630 Dynamics. (Fee: \$40) | | Introduction to Aerodynamics. Topics include potential flow, Kutta-Joukowski theorem, wing theory, panel method, lifting line theory, slender wing and slender body theories, laminar and turbulent boundary layers. <i>Prerequisite:</i> EGME-3210 Fluid Mechanics. (odd years) | |
| EGME-3850 Mechanical Design–Sp | 3 hours | EGME-4250 Propulsion–Fa | 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. <i>Prerequisite:</i> EGME-2410 Properties of Engineering Materials. <i>Corequisites:</i> EGME-3020 Mechanical Engineering Laboratory II; EGME-3610 Kinematics and Design of Machines. (Fee: \$25) | | This course introduces each type of propulsion system that is commonly used in modern aerospace vehicles; e.g., rockets, piston aero engines, gas turbine engines, ramjets, and scramjets. This course presents a balance of theory, fundamental performance analysis, and design. Engineering principles and functionality mechanisms are used in assignments, including a group design project, requiring students to analyze the performance of each type of these propulsion systems. <i>Prerequisites:</i> EGME-3110 Thermodynamics; EGME-3210 Fluid Mechanics. (odd years) | |
| EGME-3920 Mechanical Engineering Internship | 1–3 hours | EGME-4270 Compressible Fluid Flow–Fa | 3 hours |
| An opportunity for a mechanical engineering student to work closely with an industrial advisor. Specific attention is given to solving a particular problem(s) in that industry or firm. A faculty advisor assists in supervising and approving the internship, including assessing the number of credit hours. A final report (approximately seven pages per credit hour) describing the experience, including the problem and solution, is required. Must be arranged with faculty sponsor and work supervisor before starting and cannot be used to satisfy elective credit requirements. <i>Prerequisites:</i> Junior or Senior engineering major status; faculty advisor's permission. | | 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. <i>Prerequisites:</i> EGME-2050 Computational Methods; EGME-3110 Thermodynamics; EGME-3210 Fluid Mechanics. (even years) | |
| | | 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. <i>Prerequisite:</i> 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 Castiglione's theorems, are studied; applications to classical topics including analysis of beams with non-symmetrical sections, non-circular torsion, thin-wall beams, and beams on elastic foundations. *Prerequisite: EGME-2530 Statics and Mechanics of Materials.* (odd years)

EGME-4550 Continuum Mechanics–Fa 3 hours

Continuum Mechanics is a discipline of physics that deals with both solid and fluid continuous matter. This course establishes the fundamental mechanical and kinematic equations that are valid for all continuous media using the laws of physics including the conservation of mass, momentum and energy and the concepts of stress and kinematics of deformation. Constitutive equations which describe the behavior of specific idealized materials (e.g. perfectly elastic solid, viscous fluid) are also developed. Topics include: continuum assumptions, essential mathematics, stress principles, kinematics of deformation and motion, balance laws and constitutive theory. *Prerequisites: EGME-2410 Properties of Engineering Materials; PHYS-2120 General Physics II; MATH-Differential Equations.* (even years)

EGME-4560 Biomechanics and Biomaterials–Sp 3 hours

Introduction to biomechanics of the human body, reactions of biological tissue and synthetic materials to load, and the biomechanics of biomaterials. Advanced mechanical analysis of rigid and deformable bodies and fluid mechanics applied to bone, muscle, connective tissue and blood. This course will provide foundational knowledge to the engineering student for occupations in medical device manufacturing, health and sport sciences industries, and advanced fields of study. *Prerequisites: EGME-2410 Properties of Engineering Materials; PHYS-2120 General Physics II and MATH-2740 Differential Equations.* (odd years)

EGME-4610 Dynamics of Machines–Fa 3 hours

Dynamic analysis of machines and mechanisms; Newton's laws of motion, energy methods, force analysis, shaking forces, static and dynamic balancing, engine dynamics, multi-cylinder engines, and cam dynamics. *Prerequisite: EGME-3610 Kinematics and Design of Machines.*

EGME-4660 Principles of Automatic Controls–Fa 3 hours

Introduction to theoretical and experimental analysis of classical analog feedback control systems with emphasis on modeling, transfer function formulation, frequency response, root locus, Bodé plots, stability, and compensator design. Three lecture hours and one two-hour laboratory or recitation per week; design project required. *Prerequisite: EGEE-2050 Circuits and Instrumentation.* (Fee: \$100)

EGME-4710 Vibrations–Sp 3 hours

Free and forced vibrations of mechanical systems having lumped mass and elasticity, single and multiple degree-of-freedom systems, matrix formulation, eigenvalues and eigenvectors, normal mode theory, Laplace Transform, dissipative systems, introduction to random, continuous, nonlinear vibrations, and engineering applications. *Prerequisite: EGME-2630 Dynamics.* (Fee: \$15)

EGME-4720 Vibrations Lab–Sp 1 hour

Laboratory experiments to demonstrate and support EGME-4710 Vibrations; function and calibration of instrumentation and motion detection transducers, measuring the frequency response and impulse response function, electrodynamic shakers, instrumentation, Fast Fourier Transform, spectral analysis, and experience using a commercial FFT analyzer. One two-hour laboratory per week. *Pre- or Corequisite: EGME-4710 Vibrations.* (Fee: \$100)

EGME-4750 Random Vibrations and Signature Analysis 3 hours

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
Mechanical Engineering Senior Design I–Fa

This is the senior capstone design project for mechanical engineers. Student teams work independently on a design project to find a solution consistent with stated specifications using principles studied in previous courses. Work in this semester includes writing the proposal and performing background research and preliminary design. Students conduct a mid-term design review and end-of-semester oral and written presentation. Projects are advised by a faculty committee; course includes weekly written progress reports and meetings with the faculty project advisor. *Prerequisites: EGME-3850 Mechanical Design; EGME-3610 Kinematics and Design of Machines; EGME-3150 Heat Transfer; EGME-3020 Mechanical Engineering Lab II; and senior status.* (Fee: \$100)

EGME-4820 Mechanical Engineering Senior Design II–Sp 3 hours

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 Advanced Topics in Mechanical Engineering–Sp 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.*

English (ENG)
ENG-0900 Composition Workshop–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. *Corequisites: 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 undergraduate writing situations. The course emphasizes critical reading, research, and argumentation, requiring students to apply the writing process, synthesize and document resources into academic discourse, incorporate common writing methods (description, analysis, exposition, and argumentation), and produce effective prose. (Fee: \$25)

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| ENG-2020 | Career Development for the English Major –Sp | 2 hours | ENG-4230 Independent Study in English –Fa, Sp | 1–3 hours |
| | Course will orient students to the marketplace value of an English major. Topics will include skills and personality assessment, career exploration, and the development of a theology of vocation. | | Independent study in a selected field for students with special interests and demonstrated ability. | |
| ENG-2070 | Fundamentals of English Grammar –Fa | 3 hours | Entrepreneurship (ENTR) | |
| | 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. | | ENTR-1010 Creative Problem-Solving –Fa, Sp | 2 hours |
| ENG-2120 | History of Rhetorical Theory and Literary Criticism –Sp | 3 hours | This course prepares students to understand and address two pressing issues in organizations today: how to recognize and create new opportunities and how to think more creatively within workplace environments. Students will be introduced to a number of tools, concepts, and approaches including human-centered design, ideation techniques, the importance of embracing ambiguity, personal responsibility, and the place of risk and failure in entrepreneurship, creativity, and life. (Fee:\$20) | |
| | A study of the rich philosophic heritage of the West, this course is designed to familiarize students with the writers whose works have shaped rhetorical theory and led to the literary critical canon. We will examine three major questions: What are the functions of rhetoric and literature? What are the intersections between the two? How do we evaluate each? Featured writers will include Plato, Aristotle, Augustine, Blair, Grimke, Cady Stanton, Burke, and Bakhtin. <i>Prerequisite: ENG-1400 Composition.</i> | | ENTR-1020 Introduction to Entrepreneurship –Fa, Sp | 2 hours |
| ENG-2230 | Advanced Composition –Fa, Sp | 3 hours | This course introduces students to the opportunities and challenges associated with the creation and management of startup and small businesses. Students will learn about the Lean Startup framework, which allows founders to test, advance, and improve business ideas and meet important milestones. The course also provides an overview of small business concepts, including topics such as: how to recognize business opportunities, types and characteristics of entrepreneurship, the business life cycle, entrepreneurial economics, intellectual property, product and service research development and acquisition, and the use of technology. | |
| | 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. <i>Prerequisite: ENG-1400 Composition.</i> | | ENTR-2030 Entrepreneurial Finance –Sp | 2 hours |
| ENG-3010 | Style and Mechanics for Writers –Fa, Sp, Su | 3 hours | Entrepreneurial Finance differs from traditional corporate finance due to the way startups are founded and funded. This course lays out the financial decision-making process of founders, owners, and CEOs from early to late-stage ventures and covers financial techniques such as bootstrapping, venture capital, public grants, and crowd funding, etc. Students will learn capital table strategy, discover sources and types of venture funding, and calculate startup venture metrics and valuations. | |
| | Students will learn to apply reliable principles to make writing clear, concise, coherent, and cohesive. (Crosslisted with PWID-3010 Style and Mechanics for Writers) <i>Prerequisite: ENG-1400 Composition.</i> | | ENTR-2040 Social Enterprising –Fa, Sp | 2 hours |
| ENG-3060 | The English Language –Fa | 3 hours | This course uses research and cases from both secular and faith-based organizations to understand the blending of business models and mission-focused purposes to solve social problems and further the Kingdom of God. The student will learn to identify opportunities, develop blended business approaches, avoid pitfalls, determine methods to raise capital, and plan a launch of their enterprise. | |
| | Historic treatment of the growth and change in the English language with some attention to the ideologies implicit in the development of variant conventions. <i>Prerequisite: ENG-1400 Composition.</i> | | ENTR-3010 | 3 hours |
| ENG-3070 | English Grammar –Fa, Sp | 3 hours | Digital Marketing: Creating Content –Fa, Sp | |
| | 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. <i>Prerequisite for adolescent and young adult language arts majors only: ENG-2070 Fundamentals of English Grammar.</i> | | The rate at which customers shop and source information online is accelerating at a frenzied pace. Many companies — ranging from startups to established corporations — are unsure how to best engage these content-starved consumers and find themselves struggling to grow awareness and generate leads. This course reveals why and how many companies are compelled to supplement or replace traditional marketing methods with digital-style engagements and provides an immersive experience alongside the most common platforms and tactics used in social media marketing, content creation and automated marketing. (Fee:\$20) | |
| ENG-3180 | Visual Rhetoric –Fa, Sp | 2 hours | ENTR-3020 Digital Marketing: Brand Advertising –Sp | 3 hours |
| | In this course, students will practice reading visuals as texts, as well as producing visuals that serve as effective texts by balancing ethos, pathos, and logos in ways persuasive to specific audiences. This course seeks to illuminate connections between contemporary visual practices and classical rhetorical theory. | | Ensuring brands and products are easily found by customers requires both inbound and outbound methods backed by a solid web presence. Choosing the right channels and refining digital content allows companies to enjoy higher conversion rates while receiving the best ROI on advertising efforts. This class will evaluate the different E-commerce Platforms, how to optimize product information and explore the best SEO methods to ensure highest deliverability. Advertising through various PPC (pay-per-click) campaigns then evaluating metrics using assorted analytics software are also covered in this course. (Fee:\$20) | |
| 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. | | | |
| ENG-3333 | Internship –Sp | 1–3 hours | | |
| | Department-approved work-study program for advanced English majors or minors to receive academic credit for a career development opportunity in a job related to an English field. | | | |
| ENG-3550 | Writing Center Theory and Training –Fa, Sp | 1 hour | | |
| | Designed to orient students to writing center theory and practice. Will train students for employment opportunities in the writing center. <i>Prerequisite: ENG-1400 Composition; permission of instructor.</i> | | | |

ESCI-2310 Introduction to Oceanography–Sp 4 hours

An introductory survey of the oceans and the processes that occur in and around them. Major topics will include ocean currents, coastlines, plate tectonics, marine sediments, waves, tides, composition of sea water, interaction of the ocean with the atmosphere, marine life forms, and their habitats. A field trip will visit a local aquarium. Lecture three times per week and one laboratory per week. This course satisfies the physical science requirement of the general education requirements. (Fee: \$100) (odd years)

ESCI-2410 General Meteorology–Sp 4 hours

A survey of basic meteorological principles and weather systems. Topics covered will include the vertical structure of the atmosphere, cloud development and precipitation, optical effects of the atmosphere, wind systems, air masses, fronts, and severe weather. Labs will be used to develop basic meteorological skills such as observation of local weather, decoding and interpretation of meteorological data, and introductory weather forecasting. Three weekly lectures and one two-hour laboratory per week. This course satisfies the physical science component of the general education requirements. (Fee: \$100) (even years)

ESCI-2510 Introduction to Astronomy–Fa 4 hours

An introduction to the structure and composition of the universe. Topics covered will include measurement of celestial objects, structure of the solar system and galaxy, composition and history of the universe. Time will be spent in the discussion of various cosmological models and their implications. The course and lab will be taught at a level which requires the use of algebra and trigonometry. Three weekly lectures and one two-hour laboratory per week. Variations in the laboratory schedule will be made to accommodate field observations. This course satisfies the physical science requirement of the general education requirements. (Fee: \$100) (odd years)

ESCI-3100 4 hours

Principles of Geographic Information Systems–Fa

An introduction to the science of geographical information systems (GIS). Students will study the theory and practice modern thematic cartography and spatial analysis using GIS. Students will gain experience with techniques of GPS data collection, web-based data retrieval, using software (ArcGIS) for data management, storage and analysis of vector and raster datasets. Students will conduct a spatial analysis project and prepare a map product portfolio. This course satisfies the physical science requirement of the general education requirements. Three one-hour lectures and one two-hour laboratory per week. Crosslisted with ENVS-3100 Prerequisite: GMTH-1030 Precalculus or GMTH-2110 Biostatistics, or permission of instructor. (Fee: \$100)

Exercise and Sport Science Education (ESED)

ESED-2900 2 hours

Health and Movement Education for the Young Child–Fa, Sp

An investigation of current trends, methods of instruction, and curriculum design in health and physical education for primary (P-5) classrooms, including review of appropriate Ohio models. Emphasis is given to the importance of nutrition, safety, and movement education for the young child, including a look at basic nutritional, health, and safety management, especially in relationship to childhood illnesses and communicable diseases. Prerequisite: EDUC-1000 The Education Profession.

Exercise and Sport Science (ESS)

ESS-1350 Introduction to Exercise Science–Fa 2 hours

Orientation to the history, philosophy, and scope of modern exercise science from a biblical perspective.

ESS-1400 First Aid and Safety Education–Fa, Sp 2 hours

American Red Cross Standard First Aid and C.P.R. certificate may be granted at the end of the course. (Fee: \$35)

ESS-2380 Motor Learning and Development–Sp 3 hours

A study of the stages in motor development and the factors affecting the acquisition of motor skills and learning as it relates to motor skill acquisition. The course provides cognitive and psychomotor knowledge of fundamental locomotor, non-locomotor, and manipulative motor skills.

ESS-3800 Sport Psychology–Fa 3 hours

Surveys the concepts and issues related to the human psyche in the context of sports and from a biblical perspective. Prerequisite: PYCH-1600 General Psychology, junior status, or permission of instructor.

ESS-3880 1–3 hours

Special Topics in Exercise and Sport Science

Investigation of special topics in exercise science that have intrinsic worth and engage student interest. Prerequisite: permission of instructor.

ESS-3890 5 hours

Human Anatomy and Physiology for the Physical Educator–Fa

This course is designed to be a study of the structure and function of the human body from a Christian theistic perspective with particular emphasis on applications and understanding for physical educators. Prerequisite: GBIO-1000 Principles of Biology. (Fee: \$25)

ESS-3900 Physiology of Exercise–Sp 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 3 hours

The study of the mechanics of human movement and their applications to sports performance and rehabilitation. (Fee: \$25)

ESS-3940 Structural Kinesiology–Fa, Sp 3 hours

Application of musculoskeletal anatomy and biomechanics to movement analysis, exercise prescription, and clinical conditions. 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-3100 Strength and Conditioning–Fa, Sp 3 hours

This course is designed to provide a comprehensive overview of strength and conditioning. Emphasis is placed on exercise selection and technique, program design, and testing and evaluation. Prerequisites: GBIO-1000 Principles of Biology, BIO-1115 Biology I: Cell Biology, or permission of the instructor. (Fee: \$15)

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 Practium I–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 Practicum II–Fa, Sp
1 hour

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 Methods–Sp
3 hours

Overview of the principles of research methodology, with an emphasis on developing skills in evaluating and interpreting research literature and fostering an appreciation for the importance of quality research in allied health and exercise science. *Prerequisite: Junior status or permission of the instructor.*

EXSC-4700 Senior Research–Fa
3 hours

Students will work with a faculty mentor to conduct a research project, write a paper, and present the project for peers and faculty. The opportunity to present at conferences and/or publish the paper exists for those interested. *Prerequisite: EXSC-4600 Research Methods. (Fee: \$35)*

EXSC-4850
1–3 hours
Independent Study in Exercise Science–Fa, Sp

Independent study in the area of exercise science by students pursuing the exercise science major. *Prerequisite: Departmental approval is required.*

EXSC-4880
3 hours
Exercise Testing and Prescription for Special Populations–Fa

This course will prepare exercise science students to do exercise testing and prescriptions for individuals who are either acutely or chronically distinct from the “apparently not at risk” adult population. These include individuals who are children, elderly, or pregnant, as well as those who have acute or chronic illness or disease conditions that might affect the testing protocol or details of the exercise prescription. *Prerequisites: EXSC-3860 Basic Exercise Testing; EXSC-3870 Basic Exercise Prescription. (Fee: \$75)*

EXSC-4990 Internship in Exercise Science–Fa, Sp
9–12 hours

This is an actual work experience in an exercise science setting for a minimum of 300 work hours for 9 credit hours and up to 400 work hours for 12 credit hours with a minimum of 30 work hours per week. Capstone course for exercise science major. *Prerequisite: Senior status and departmental approval is required.*

Film (FILM)
FILM-2350 Christian Motifs in Film–Fa
3 hours

Study of depictions of Christ and Christ-figures as well as other Christian motifs in film. This course will provide a detailed introduction to the characteristics of the Christ-figure and its most common manifestations in film. The course will focus on viewing and evaluating films containing Christian motifs such as redemption, sacrifice, sin, and faith. This course may be used to satisfy the general education humanities elective requirement.

Finance (FIN)
FIN-1710 Personal Finance–Fa, Sp
3 hours

This course is designed to educate and inform the undergraduate student about personal finance, with the view toward practical application, both currently and upon graduation. The course integrates principles of personal finance with biblical principles. Topics include: biblical stewardship, work, financial planning, budgeting, giving, taxation, use of credit, investments, asset protection, retirement and estate planning. (This course is a general elective course.)

FIN-2730 Church Business Administration
3 hours

A study of the principles and procedures of the financial management of the local church organization. (Credit not applicable to meet business elective requirements.).

FIN-3310 Money and Financial Markets–Sp
3 hours

This course will introduce the student to monetary economics and how the monetary system impacts the whole complex of financial markets. Building on the foundation of macroeconomics, the course will include detailed analysis of financial markets and institutions as well as monetary theory. The institution of central banking and its influence on money and financial markets will be specifically evaluated. *Prerequisite: ECON-2340 Macroeconomics or permission of instructor.* Crosslisted with ECON-3310.

FIN-3410 Topics in Finance–Fa, Sp, Su
1–3 hours

A variety of topics are covered under this heading on an experimental basis. This allows the department to meet the changing needs of the students without formally adding or dropping courses.

FIN-3710 Principles of Finance–Fa, Sp
3 hours

A study of the theoretical and practical aspects of financial decision-making. Topics include financial statement analysis, financial markets, risk and return, determinants of interest rates, time value of money, valuation of financial assets, cost of capital and capital budgeting, dividends, multi-national financial management, and financial planning and forecasting. *Prerequisites: ACCT-2110 Principles of Accounting I; BUS-2150 Statistics for Business.*

FIN-3730 Investments–Sp
3 hours

A study of the various types of investments including stocks, bonds, mutual funds, commercial, paper, options, and commodities. Particular emphasis is given to return and risk in developing investment strategies. *Prerequisite: FIN-3710 Principles of Finance. (Fee \$50)*

FIN-3750 International Finance–Sp
3 hours

Discussion and analysis of financial management within a global context. Topics include international financial markets, foreign exchange rates and risk, exchange risk management, and other financial management issues relative to the multinational firm. *Prerequisite: FIN-3710 Principles of Finance*

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|--|----------------|--|----------------|
| FIN-3760 Financial Planning–Fa | 3 hours | FORS-4800 Forensic Science Capstone–Fa, Sp | 1 hour |
| 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. <i>Prerequisite:</i> FIN-3710 Principles of Finance | | 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. <i>Corequisite:</i> FORS-3400 Forensic Science. | |
| FIN-3770 | 3 hours | FORS-4900 Forensic Science Project–Fa, Sp | 3 hours |
| Security Analysis and Portfolio Management–Fa | | Students will gain experience in forensic science through a special, faculty-supervised project undertaken on campus. A technical report detailing the skills utilized and knowledge gained and the instructor's evaluation will be the basis for successful completion. <i>Prerequisites:</i> CHEM-2220 Analytical Chemistry II; FORS-1500 Introduction to Forensic Science; FORS-3400 Forensic Science (recommended). (Fee: \$100) | |
| FIN-3770 Security Analysis and Portfolio Management–Fa | 3 hours | FORS-4910 Forensic Science Internship–Fa, Sp | 3 hours |
| 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. <i>Prerequisite:</i> FIN-3730 Investments. (Fee: \$20) | | Students will gain experience in forensic science through time at a departmentally approved work environment. A technical report detailing the skills utilized and knowledge gained and a supervisor's evaluation will be the basis for successful completion. <i>Prerequisites:</i> CHEM-2220 Analytical Chemistry II; FORS-1500 Introduction to Forensic Science; FORS-3400 Forensic Science (recommended). | |
| FIN-3770 Security Analysis and Portfolio Management–Fa | 3 hours | French (FREN) | |
| FIN-3770 Security Analysis and Portfolio Management–Fa | 3 hours | FREN-1910 | 4 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. <i>Prerequisite:</i> FIN-3710 Principles of Finance. (Fee: \$20) | | Elementary French I–Fa | |
| FIN-3770 Security Analysis and Portfolio Management–Fa | 3 hours | Development of basic skills in reading, writing, speaking, and listening in French, along with an introduction to French culture. | |
| FIN-4715 Applied Portfolio Management–Fa, Sp | 1 hour | FREN-1920 | 4 hours |
| 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. <i>Prerequisite or Corequisite:</i> FIN-3730 Investments. (Fee: \$20) | | Elementary French II–Sp | |
| FIN-4715 Applied Portfolio Management–Fa, Sp | 1 hour | Development of basic skills in reading, writing, speaking, and listening in French, along with an introduction to French culture. <i>Prerequisite:</i> FREN-1910 Elementary French I; or equivalent or placement test. | |
| FIN-4750 Financial Institution Management–Fa | 3 hours | FREN-2910 Intermediate French I–Fa | 4 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. <i>Prerequisite:</i> FIN-3710 Principles of Finance. (Fee: \$20) | | Development of all four language skills through grammar review, composition, conversation and readings in French literature and culture. <i>Prerequisite:</i> FREN-1920 Elementary French II. | |
| FIN-4770 Advanced Financial Management–Sp | 3 hours | FREN-2920 Intermediate French II–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. <i>Prerequisite:</i> FIN-3710 Principles of Finance. | | Development of all four language skills through grammar review, composition, conversation and readings in French literature and culture. <i>Prerequisites:</i> FREN-1920 Elementary French I; FREN-2910 Intermediate French I; instructor's approval or placement by exam. | |
| Forensic Science (FORS) | | FREN-3910 French Conversation–Fa | 3 hours |
| FORS-1500 Introduction to Forensic Science–Sp | 3 hours | Designed to increase the student's aural comprehension and oral communication in French. Attention given to pronunciation, vocabulary building, communication strategies, and effective cross-cultural communication. <i>Prerequisite:</i> FREN-2920 Intermediate French II; instructor's approval or placement by exam. | |
| An introduction to the areas of modern forensic science, with an emphasis on criminalistics and forensic science as a science. Areas to be covered include the nature of science, recognition and collection of evidence, crime scene analysis, bloodstain pattern analysis, medicolegal death investigation, forensic anthropology, biological evidence, DNA typing, forensic toxicology, drug analysis, fingerprint analysis, firearm and tool mark analysis, trace evidence, questioned documents, and arson and fire investigation. <i>Corequisites:</i> CHEM-1110 General Chemistry I, BIO-1115 Biology I: Cell Biology. | | FREN-3920 Contemporary French Culture–Sp | 3 hours |
| FORS-3400 Advanced Forensic Chemistry–Sp | 4 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. <i>Prerequisite:</i> FREN-2920 Intermediate French II; instructor's approval or placement by exam. (odd years) | |
| An advanced study of the application of analytical chemistry to forensic analysis. A detailed study of best practices for quality control and error analysis in forensic chemistry, modern DNA typing with an emphasis on sample preparation and interpretation of results, instrumental methods in fiber and glass trace analysis, extraction and analysis of accelerants in fire investigation, drug toxicology and metabolism, and seized drug identification with an emphasis on acid/base extraction of samples and analysis by immunoassay, LCMS, and GCMS. Three lectures and one three-hour lab per week. <i>Prerequisites:</i> CRJU-1310 Introduction to Criminal Justice; FORS-1500 Introduction to Forensic Science; BIO-1115 Biology I: Cell Biology. <i>Co-requisites:</i> CHEM-2220 Analytical Chemistry II; CHEM-3510 Organic Chemistry I. Crosslisted with CHEM-3400 (Fee: \$100) (even years) | | 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. <i>Prerequisite:</i> FREN-2920 Contemporary French Culture or permission of instructor. (even years) | |

FREN-3940 Special Topics in French–Fa, Sp, Su 1–3 hours

This course is offered as an intensive and independent study in a particular area of the French language, literature, or culture for individual students who demonstrate special interests and ability.

Prerequisite: FREN-2920 Intermediate French II

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 School 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-1010 Basics of the Cell–Fa 1 hour

Foundational principles of the cell will be covered, with a focus on the following topics: the cell membrane; cellular organelles; chromosome structure, DNA replication, transcription and translation; the cell cycle and cellular division (mitosis and meiosis); and Mendelian genetics. The course is designed to fulfill the prerequisite requirement for GBIO-2010 Human Anatomy and Physiology.

GBIO-1100 Pre-Health Professional Development I–Sp 1 hour

This course is designed to introduce pre-health professions students to health-related fields (including medicine, dentistry, optometry, and veterinary medicine) and provide guidance for the academic/professional preparation required for entrance into these graduate programs. Students are introduced to the role of Cedarville's pre-health professions committee, are given the opportunity to interact with CU alumni medical professionals, and are exposed to a variety of medical professions and programs. One meeting per week. *Prerequisite: Interest or intention of applying to medical, dental, optometry, or veterinary school, or instructor's permission.*

GBIO-2010 Human Anatomy and Physiology I–Sp 4 hours

Survey of the anatomy and physiology of the human body with an emphasis on cell and human tissues and on the skeletal, muscular, nervous, and endocrine systems. Three lectures and one laboratory experience per week. *Prerequisite: One semester of biology; or permission of the instructor.* (Fee: \$75)

GBIO-2015 Human Anatomy and Physiology II–Fa 4 hours

Survey of the anatomy and physiology of the human body with an emphasis on the cardiovascular, respiratory, immune, digestive, urinary, and reproductive systems. Three lectures and one two hour laboratory per week. *Prerequisites: GBIO-2010 Human Anatomy and Physiology I.* (Fee: \$75)

GBIO-2210 Principles of Microbiology–Fa 4 hours

A study of the characteristics, culture, and control of bacteria, viruses, and fungi. A major emphasis is placed on microorganisms and disease. Laboratory techniques are emphasized. Three lectures plus one lab each week. *Corequisites or Prerequisites: CHEM-1000 Principles of Chemistry; GBIO-1010 Basic of the Cell or BIO-1115 Biology I: Cell Biology.* (Fee: \$100)

GBIO-3100 Pre-Health Professional Development II–Fa 1 hour

This course is designed to help students prepare for their upcoming medical, dental, or optometry school application. As part of the course, students draft personal statements, discuss and categorize their extracurricular activities, consider secondary application questions, create exam study plans (MCAT/DAT/OAT), and practice interviewing skills. One meeting per week. Additionally, students attend the 3-day annual Global Missions Health Conference in Louisville, KY. *Prerequisite: GBIO-1100 Pre-Health Professional Development I, and junior/senior status with the intention of applying to medical, dental, or optometry school during the upcoming application period; or instructor's permission.* (Fee: \$100)

GBIO-3350 Principles of Immunology–Sp 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. *Prerequisite: BIO-1115 Biology I: Cell Biology.*

Geography (GEO)

GEO-3040 3 hours

History and Politics of the British Isles and Canada–Sp

This course examines three countries: the United Kingdom, the Republic of Ireland, and Canada. After an extensive topical history along with a discussion of major prime ministers who served in the 19th and 20th centuries, this course also investigates contemporary issues including foreign policy, recent political debates, secessionist problems in Scotland and Quebec, membership in the European Union, and the ongoing structural changes to government. Crosslisted as HIST, INTL, and POLS. (odd years)

GEO-3080 History of Russia and Eastern Europe–Fa 3 hours

The course will cover not only Soviet history but also major events of Russian history up to the Bolshevik Revolution. Soviet history will be studied in detail, with attention given to the development of non-Russian peoples in the empire. The political, economic, social, and foreign policy aspects of Soviet history will all be covered, emphasizing Perestroika and the Soviet collapse. Crosslisted as GEO, HIST, INTL, or POLS (even years)

GEO-3200 History and Politics of Latin America–Fa 3 hours

Analysis of the major historical, political, geographical, social, and diplomatic developments that have shaped contemporary Latin America. Crosslisted as GEO, HIST, INTL, or POLS. (odd years)

GEO-3210 History and Politics of East Asia–Sp 3 hours

This course provides an overview of the major historical, political, economic, and social developments of China (Taiwan), Japan, and the two Koreas (South Korea and North Korea). May be credited to geography, history, international studies, or political science. Crosslisted as GEO, HIST, INTL, or POLS. (even years)

GEO-3220 History and Politics of the Middle East–Sp 3 hours

Analysis of the major historical, political, geographical, and social forces, such as religion and nationalism, that have shaped the contemporary Middle Eastern states. Crosslisted as GEO, HIST, INTL, or POLS.

GEO-3230 History and Politics of Western Europe–Sp 3 hours

This course will cover the development of Western European history and politics from approximately the year 1900 to the present. Concentration will be on the great European powers, but will include the smaller states. The political, economic, and social histories of the nations of Europe will be covered, as well as several macro-European issues. Crosslisted as GEO, HIST, INTL, or POLS. (even years)



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| GEO-3510 | | 3 hours | GEOL-2100 Mineralogy–Fa | 4 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. | The student will study the occurrence, associations, characteristics, and crystal chemistry of common minerals. Laboratory work will emphasize identification and recognition of minerals. <i>Prerequisites: GEOL-1110 Introduction to Physical Geology; CHEM-1110 General Chemistry I (corequisite). (Fee: \$150) (even years)</i> |
| GEO-3520 | | 3 hours | World Regional Geography: Eastern Hemisphere –Sp | 1–4 hours |
| | | | Survey of various regions in the eastern hemisphere with an emphasis on the cultural, economic, and political developments in relation to the geographical environment. | 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. <i>Prerequisites: sophomore geology major and advisor approval of the proposal.</i> |
| GEO-4440 Special Topics: Geography | 1–3 hours | | GEOL-2810 Geology Field Work and Research –Su | 1–4 hours |
| Investigation of specific topics in Social Science and History that have intrinsic worth and engage student interest. | | | | |
| GEO-4920 | 1–3 hours | | GEOL-3100 Geomorphology –Sp | 4 hours |
| Independent Study in Geography | | | 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. <i>Prerequisites: GEOL-1110 Introduction to Physical Geology; GEOL-1120 Historical Geology. (Fee: \$150) (even years)</i> | |
| Geology (GEOL) | | | GEOL-3200 Invertebrate Paleontology –Fa | 4 hours |
| 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 School 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. | | | 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. <i>Prerequisites: BIO-1115 Biology I: Cell Biology; GEOL-1120 Historical Geology. (Fee: \$150) (odd years)</i> | |
| GEOL-1110 Introduction to Physical Geology –Fa | 4 hours | | GEOL-3300 Petrology –Sp | 4 hours |
| An introductory study of the earth and its geological processes, including various alternative interpretations of earth history. Laboratory exercises will complement the lecture material and will include local field trips. Three weekly lectures and one weekly laboratory experience. This course satisfies the physical science requirement of the general education requirements. (Fee: \$150) | | | Students will study the occurrence and origin of sedimentary, igneous, and metamorphic rocks and learn how to identify them. Required field trip. <i>Prerequisite: GEOL-2100 Mineralogy; CHEM-1120 General Chemistry II (corequisite). (Fee: \$500) (even years)</i> | |
| GEOL-1120 Historical Geology –Sp | 4 hours | | GEOL-3400 Structural Geology –Fa | 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. <i>Prerequisite: GEOL-1110 Introduction to Physical Geology. (Fee: \$150)</i> | | | Mechanics of rock deformation and the study of various structures in all types of rocks. Required field trip. <i>Prerequisite: GEOL-3300 Petrology; GEOL-3100 Geomorphology and PHYS-2120 General Physics II (corequisites). (Fee: \$150) (odd years)</i> | |
| GEOL-2030 | 3.5 hours | | GEOL-3600 Readings in Geology –Fa | 1 hour |
| Geology of the National Parks for Geology Majors –Sp | | | Students will read and discuss a current text or series of papers. The purpose is to help the student become more familiar with the geological research and literature. Part of the course requirements may include attending a national or regional GSA conference. Course may be taken up to three times for credit. <i>Prerequisite: GEOL-1120 Historical Geology. (Fee: \$150)</i> | |
| 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. <i>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.)</i> | | | 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. <i>Prerequisite: GEOL-1120 Historical Geology; 16 hours of geology courses and junior status.</i> | |

GEOL-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. *Prerequisites: 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 dean (the course will be sponsored by another institution). The course will typically be taken following the student's junior or senior year. *Prerequisites: GEOL-3100 Geomorphology; GEOL-3300 Petrology; GEOL-3400 Structural Geology; and GEOL-4200 Stratigraphy and Sedimentology.*

GEOL-4700 Professional Geologist Exam Prep–Sp
1 hour

A course for reviewing geologic topics in preparation for taking the ASBOG geology-proficiency assessment examination. The review and assessment exam also serves preparation for taking many states' Professional Geologist registration exam. *Prerequisite: Senior status in geology/geoscience.*

GEOL-4800 Senior Project–Fa, Sp
1 hour

A capstone project including geological research, writing, and presentation of results. To be completed during one of the student's last two semesters of coursework. Course may be taken up to 2 times. *Prerequisite: senior status; GEOL-3800 Philosophy of Science and Research Methods in Geology. (Fee: \$100)*

GEOL-4830 Research in Geology–Fa, Sp
2–3 hours

Investigation of a geologic research project and its culmination in a scholarly research report (oral and/or written). Submission and approval of a research proposal must precede registration. May be repeated once for credit. *Prerequisites: Completion of 16 hours in geology; junior status; and permission of instructor. (Fee:\$200)*

GEOL-4880 Topics in Geology–Fa, Sp
1–3 hours

Topics of special geological interest that are not in the existing curriculum are selected by the faculty. The topic should provide a logical extension of the student's academic plan and enhance the student's educational experience. *Prerequisite: Completion of 16 hours in geology; junior status; and permission of instructor.*

GEOL-4900 Independent Study in Geology–Fa, Sp
1–3 hours

Supervised independent study of a particular geologic phenomenon. Submission and approval of a research proposal must precede registration. *Prerequisite: Major in geology; approval of research proposal.*

German (GER)
GER-1810 Elementary German I–Fa
4 hours

Development of basic skills in reading, writing, speaking, and listening in German, along with an introduction to German culture.

GER-1820 Elementary German II–Sp
4 hours

Development of basic skills in reading, writing, speaking, and listening in German, along with an introduction to German culture. *Prerequisite: GER-1810 Elementary German I; or equivalent or placement test.*

GER-2810 Intermediate German I
4 hours

Development of all four language skills through grammar review, composition, conversation, and readings in German literature and culture. *Prerequisite: GER-1820 Elementary German II or equivalent.*

GER- 2820 Intermediate German II
3 hours

Development of all four language skills through grammar review, composition, conversation, and readings in German literature and culture. *Prerequisite: GER-2810 Intermediate German I or equivalent.*

GER-3800 Special Topics in German–Fa, Sp
1–3 hours

Topic chosen by the student and professor, based upon need and interests. *Prerequisite: GER-2820 Intermediate German II or equivalent.*

GER-3810 German Conversation and Composition–Sp
3 hours

Students will focus on the productive skills of the German language, speaking and writing. Oral practice in German through speeches and oral reports, along with a review of pronunciation, will provide emphasis on speaking skills. Written versions of speeches and reports, along with a review of grammar, will provide emphasis on writing skills. *Prerequisite: GER-2820 Intermediate German II or equivalent. (even years)*

GER-3820 Germanic History and Culture–Sp
3 hours

This course is designed to introduce students to the history and culture of Central Europe, specifically the region where German is the native language of the inhabitants and where present-day Germany, Austria and Switzerland are located. Students will also learn how Germanic History influenced and played a role in establishing modern-day western cultural norms. Course taught in English. (odd years).

GER-3830 Survey of German Literature–Fa
3 hours

A survey of German literature from the Middle Ages through the 20th century designed to provide the student with an understanding of the literature and its reflection of the culture. Readings in German and English. *Prerequisite: GER-2820 Intermediate German or equivalent.*

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 School 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-0900 Intermediate Algebra–Fa, Sp
2 hours

Review of algebraic principles, which are then extended to the solution of polynomial equations, systems of linear equations, rational and radical equations, functional notation, exponential functions, and logarithmic functions with emphasis on computational proficiency. This course is designed to provide the student the opportunity to satisfy the mathematics proficiency requirement. May not be applied toward the 128 semester hours needed for graduation nor toward the science and mathematics quantitative course General Education requirement.

GMTH-1010 Introduction to Mathematics–Fa, Sp
3 hours

Introduction to mathematical concepts including voting theory, apportionment and fair division, models of population growth, and graph theory. *Prerequisite: Proficiency in mathematics.*

GMTH-1020 College Algebra–Fa, Sp, Su
3 hours

Introduction to methods of algebraic analysis. Includes (but may not be limited to) many topics of intermediate algebra: the field axioms, linear functions, inequalities, systems of equations, determinants, and quadratic functions. This course, in conjunction with GMTH-1030 Precalculus, is designed to prepare the student for calculus. *Prerequisite: Proficiency in mathematics; two years of high school mathematics; or permission of instructor.*



GMTH-1030 Precalculus–Fa, Sp

4 hours

Introduction to the principles of trigonometry and some advanced topics in algebra. Coverage includes, but may not be limited to, exponential, logarithmic, trigonometric, and circular functions, triangle problems, and vectors. This course, in conjunction with GMTH-1020 College Algebra, is designed to help prepare the student for calculus. *Prerequisites: Proficiency in mathematics; GMTH-1020 College Algebra or equivalent; or permission of instructor.*

GMTH-1040

3 hours

Calculus for Business/Social Science–Fa, Sp

Introduction to the concepts of differential and integral calculus for students of business. Numerous applications from these areas will be considered. Does not apply toward major in mathematics. *Prerequisite: Proficiency in mathematics.*

GMTH-2110 Introduction to Biostatistics–Fa, Sp

3 hours

An introduction to statistical methods that are of particular interest to biologists for experimental design and interpretation. *Prerequisites: BIO-1115 Biology I: Cell Biology or MATH-1700 Calculus & Dynamical Systems for Life Sciences or MATH-1710 Calculus I.*

GMTH-3010 Proof and Mathematical Modeling–Fa

3 hours

Proof by contradiction, contrapositive, and induction will be explored along with direct proof in the verification of conjectures and other mathematical propositions. Additionally, the formulation of discrete, statistical, and algebraic mathematical models, along with their use in solving problems, will be studied. Appropriate educational technology, including graphing calculators, spreadsheets, and geometric manipulation software will be used throughout. Does not count toward the BA or BS majors in mathematics or the BA in integrated mathematics education. *Prerequisites: EDUC-2800 Principles of Mathematics II; GMTH-1020 College Algebra.*

GMTH-3100 Theory of Interest–Sp

4 hours

This course is an introduction to the fundamental concepts of financial mathematics and how these concepts are applied in calculating present and future values for various streams of cash flows. Applications to annuities, loans, stocks, and bonds are covered. The learning outcomes of this course match those specified by the Society of Actuaries for candidates taking Exam FM. *Prerequisites: MATH-1720 Calculus II; corequisite: FIN-3710 Principles of Finance. (even years)*

General Music (GMUS)

GMUS-1000 Music Philosophy and Aesthetics–Fa

1 hour

Philosophical and scriptural foundation for the Christian concepts of musical creativity, musical worship, and stewardship. Understanding the unique teacher-student relationship in music. A first attempt at codifying a coherent, personal, Christian philosophy of music.

GMUS-1030 Recital and Program Attendance–Fa, Sp

0 hours

Music majors and minors must attend a prescribed number of programs and recitals each semester. Majors must enroll each semester. For a music minor, students must enroll for two consecutive semesters.

GMUS-4980 Special Topics: General Music–Fa, Sp

1–3 hours

Study of selected topics in music.

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 School of Science and Mathematics unless they are specifically listed in the curriculum requirements for a major. A student majoring in science or mathematics may take these courses only as electives. However, any course listed for a science or mathematics major or minor may also count toward fulfilling general education requirements.

GSCI-1010 Principles of Earth Science–Fa, Sp

3.5 hours

A survey of the sciences of geology, oceanography, and meteorology. Major lecture topics include discussion of earth's geological history, minerals, rocks, dating, plate tectonics, glaciers, volcanoes, ocean currents, marine life, waves, the atmosphere, and weather systems. When appropriate, contrasting views of these subjects will be examined. Laboratory experiences include field trips to areas of local geological interest. Lecture three times per week and laboratory on alternate weeks. Satisfies the physical science requirement of the general education requirements. (Fee: \$75)

GSCI-1020 Principles of Physical Science–Fa, Sp

3.5 hours

A survey of the sciences of physics, chemistry, and astronomy. Major lecture topics include motion, force, energy, heat, waves, electricity, optics, quantum effects, periodic table, chemical bonds, chemical reactions, astronomical measurements, and the origin of the universe. Content of this course will be related to social and philosophical issues to emphasize a Christian's responsibility in a technological society. Lecture three times per week and laboratory on alternate weeks. This course satisfies the physical science requirement of the general education requirements. (Fee: \$75)

GSCI-1030 Geology of the National Parks–Su

3.5 hours

This course will explore the geology of the national parks and surrounding areas in specific regions of the United States. It is a two-week travel study course that fulfills the three and a half-hour laboratory physical science requirement. Trip locations may vary from year to year. Six or more major areas will be explored on each trip. Students will be expected to complete a photographic atlas with appropriate geological descriptions of each stop. Special emphasis will be placed on how geologic history is interpreted and placed into biblical and conventional frameworks. Students will learn how to make geological observations and take field notes. No previous geological knowledge is required. It is necessary for students to be in good physical shape for occasional hiking in rough terrain and at high altitudes, although requirements can be modified for students unable to do so. Special equipment may be required. Special course fees apply and will vary from year to year.

GSCI-1110

4 hours

Environment: Science, Sustainability, and Stewardship–Sp

An interdisciplinary study of the environment that considers foundational understanding rooted in science, society, and economy. We will explore the socio-ecological implications of human activity, impacts, and responsibility for the environment. Students from all majors are welcome and will be challenged to develop and apply a biblical stewardship ethic. Three lectures and one two-hour laboratory per week. Crosslisted with ENVS-1110. (Fee: \$100)

GSCI-2010 Physical Science for Teachers–Fa, Sp

3.5 hours

Introduction to a selection of core concepts of physics and chemistry for preservice elementary education teachers. Students will develop methods of learning science, with emphasis on inquiry and the scientific method. In-class lab activities will integrate common everyday objects and experiences with a view toward cultivating the excitement of studying God's creation. Does not satisfy the physical science general education requirement. (Fee: \$75)

GSCI-3010 Concepts in Middle School Science–Sp 4 hours

This lab course highlights key concepts in middle school science by reviewing and extending concepts from previous science courses with an emphasis on the integration of earth sciences, physical sciences, and life sciences. Concepts addressed include the nature of science, methods of science, the history of science, biological and geological evolution, and development of the DNA model and the role of DNA in the Modern Synthesis Theory. *Prerequisites: GBIO-1000 Principles of Biology; GSCI-1010 Principles of Earth Science. CHEM-1000 Principles of Chemistry (recommended) (Fee: \$75) (even years)*

GSCI-3060 Environmental Science for Middle School Educators–Sp 4 hours

Introduction to the interdisciplinary study of the dynamic relationships that exist between the earth's organisms and their environment and how human activity affects these relationships. Students will identify and analyze environmental problems both natural and human-made and identify and explore sustainable solutions to the problems. This course will include pertinent pedagogy for teaching environmental science in a middle school setting. Three lectures and one laboratory session per week. This course does not satisfy the general education requirement for biology. *Prerequisites: GBIO-1000 Principles of Biology, GSCI-1010 Principles of Earth Science (Fee: \$100) (odd years)*

General Social Science (GSS)
GSS-1100 Politics and American Culture–Fa, Sp 3 hours

This course serves as an introductory study of America's constitution and political institutions, with emphases on political participation, political culture, and public policy. (Fee: \$5)

GSS-1350 Career Options–Sp 1 hour

The course is designed to help students understand the connection between their chosen major and possible career aspirations. Skills, interests, values, and an appreciation for a biblical view of work are all critical parts of identifying a potential vocation. To aid students as they create a Career Map, this course will use valid, proven assessments and expose students to professionals in a variety of fields. (Fee \$60)

GSS-3630 Data Analysis and Research Methodology–Fa, Sp 4 hours

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 Qualitative Methodology and Reasoning–Fa, Sp 3 hours

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. *Prerequisites: GSS-3640 Qualitative Methodology and Reasoning.*

GSS-3810,3820 Clinical Teaching in the Social Sciences–Fa, Sp 1 hour each

Practical, off-campus, formal education experience in which a student is assigned to assist a secondary education instructor in teaching responsibilities. A student will be expected to participate for 30 clock hours for each semester hour of credit. A student may arrange to do either of the following with the director of this experience in their discipline:

1. One 30-hour experience for two different semesters.
2. A 60-hour experience for one semester.

Prerequisite: admission to the Teacher Education Program.

GSS-4810 Policy Formation–Fa 3 hours

A core course of the D.C. Semester focusing on policy formation and encouraging appropriate appreciation for and analysis of that process from a biblically informed perspective. *Prerequisite: Acceptance into the D.C. Semester program.*

GSS-4820 Biblical Principles and Governance–Fa 3 hours

A core course of the D.C. Semester focusing on biblical principles related to the role of government, the responsibilities of citizens, and the evaluation of critical issues within the political system. *Prerequisite: Acceptance into the D.C. Semester program.*

GSS-4900 Senior Research–Sp 3 hours

Senior capstone thesis course in which students engage in original research and writing for the completion and defense of thesis before a committee of professors. Course emphasizes substantive cross-disciplinary and biblical integration within research topic. Crosslisted with INTL. *Prerequisite: GSS-3640 Qualitative Methodology and Reasoning; or permission of instructor. (Fee: \$80)*

GSS-4990 Social Science/History Internship 1–16 hours

Majors who participate in government service, historical research, public administration, international studies, criminal justice, or other approved activities related to the social sciences may earn up to 16 hours of credit.

History (HIST)
HIST-1110 United States History to 1877–Fa, Sp 3 hours

Survey and analysis of the development of the United States from the colonial period through Reconstruction. The course examines ethnic, social, military, political, economic, and ideological themes in order to achieve a broad understanding of American civilization to 1877. Attention is given to the dominant Christian influences that have tended to shape our cultural, social, and political development.

HIST-1120 United States History Since 1877–Fa, Sp 3 hours

Survey and analysis of the development of the United States from the Reconstruction Era to the present. The course examines ethnic, social, military, political, economic, and ideological themes in order to achieve a broad understanding of American civilization since 1877. Attention is given to the dominant Christian influences that have tended to shape our cultural, social, and political development.

HIST-2010 History of Civilization to 1500–Fa, Sp 3 hours

Survey of human history and ideas from the advent of civilized life in the Ancient Near East to the Reformation Era. It presents religious, social, political, and general intellectual developments of humans from a Christian interpretive perspective.

HIST-2020 History of Civilization Since 1500–Fa, Sp 3 hours

Survey of human history and ideas from the Reformation Era to this century. It presents religious, social, political, and general intellectual developments of humans from a Christian interpretive perspective.



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| HIST-2100 Ohio History for Educators–Fa | 2 hours | HIST-3130 Civil War and Reconstruction–Fa | 3 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. | | Study of the sectional crisis, the military and nonmilitary aspects of the Civil War, and the social and political phases of Reconstruction. <i>Prerequisite: HIST-1110, 1120 United States History. Alternates with HIST-3400 History of American Foreign Policy.</i> (odd years) (Fee: \$150) | |
| HIST-2620 Church and State–Fa | 3 hours | HIST-3200 History and Politics of Latin America–Fa | 3 hours |
| A historical overview of the relationship between the Christian church and government, ranging from the formation of the church to the modern age, including both European and American Developments. The course also exposes students to the most recent controversies regarding the state, religious liberty, and freedom of conscience. <i>Prerequisite: GSS-1100 Politics and American Culture.</i> | | Analysis of the major historical, political, geographical, social, and diplomatic developments that have shaped contemporary Latin America. May be credited to geography, history, international studies, or political science. Crosslisted as GEO, HIST, INTL, or POLS. (odd years) | |
| HIST-3000 Introduction to Historiography–Fa | 3 hours | HIST-3210 History and Politics of East Asia–Fa | 3 hours |
| Introduction to the history of historical writing, methods of research, and the philosophy of history. Required of history majors. Should be taken in the junior year. | | This course provides an overview of the major historical, political, economic, and social developments of China (Taiwan), Japan, and the two Koreas (South Korea and North Korea). May be credited to geography, history, international studies, or political science. Crosslisted as GEO, HIST, INTL, or POLS. (even years) | |
| HIST-3030 History of Christianity: Pre-Reformation–Sp | 3 hours | HIST-3220 History and Politics of the Middle East–Sp | 3 hours |
| Survey of ancient and medieval Church history with emphasis given to doctrinal and institutional developments. (even years) | | 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-3040 History and Politics of the British Isles and Canada–Sp | 3 hours | HIST-3230 History and Politics of Western Europe–Sp | 3 hours |
| This course examines three countries: the United Kingdom, the Republic of Ireland, and Canada. After an extensive topical history along with a discussion of major prime ministers who served in the 19th and 20th centuries, this course also investigates contemporary issues including foreign policy, recent political debates, secessionist problems in Scotland and Quebec, membership in the European Union, and the ongoing structural changes to government. Crosslisted as GEO, INTL, and POLS. (odd years) | | This course will cover the development of Western European history and politics from approximately the year 1900 to the present. Concentration will be on the great European powers, but will include the smaller states. The political, economic, and social histories of the nations of Europe will be covered, as well as several macro-European issues. Crosslisted as GEO, HIST, INTL, or POLS. (even years) | |
| HIST-3050 Renaissance and Reformation Europe–Fa | 3 hours | HIST-3300 Modern Church History: Reformation to the Present–Sp | 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 Reformation and the Roman Catholic Counter-Reformation. A special emphasis will be placed on the continuities and discontinuities between the two movements. Crosslisted with BTHT. (even years) | | 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-3080 History of Russia and Eastern Europe–Fa | 3 hours | HIST-3310 American Church History–Sp | 3 hours |
| This course will cover not only Soviet history but also major events of Russian history up to the Bolshevik Revolution. Soviet and Eastern European history will be studied in detail, with attention given to the development of non-Russian peoples in the empire. The political, economic, social, and foreign policy aspects of Soviet Eastern European history will all be covered, emphasizing Perestroika and the Soviet collapse. Crosslisted as GEO, HIST, INTL, or POLS. (even years) | | A survey of major trends, ideas and individuals in the history of the Church in America from the 1600s to the present, including the theological roots of American theology. Special attention will be given to the Puritans, Jonathan Edwards, the rise of the Social Gospel and theological liberalism. Crosslisted with BTHT. (odd years) | |
| HIST-3110 Early American History–Sp | 3 hours | HIST-3400 History of American Foreign Policy–Fa | 3 hours |
| Analysis of the development of American civilization from colonization to 1820. Political, religious, social, economic, and cultural institutions will be examined. <i>Prerequisite: HIST-1110 United States History or permission of instructor.</i> | | 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. <i>Prerequisite: GSS-1100 Politics and American Culture.</i> (even years) | |
| HIST-3120 History of Recent and Contemporary America–Fa | 3 hours | HIST-3710 History of Political Thought I: Ancient Through Medieval–Fa | 3 hours |
| Intensive study of the domestic and foreign policies of the United States since 1945. Particular emphasis is given to American society in the 1950's, the Cold War, the Civil Rights Movement, the cultural revolution of the 1960's, American involvement in Vietnam, the Welfare State, Watergate, and the Reagan Revolution. | | 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. | |

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| HIST-3720 | 3 hours | HLMU-3120 Vocal Literature–Sp | 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. <i>Prerequisite: Major or minor in economics, history, or political science or permission of instructor.</i> | | | |
| HIST-3730 American Political Thought–Sp | 3 hours | HLMU-3130 Opera and Oratorio Literature–Sp | 3 hours |
| Survey and examination of the course of political thought in the American colonies and the United States from the 1600s to current times. Includes special attention to American Founders and the rise of political liberalism in the thought of Woodrow Wilson. Crosslisted as POLS or HIST. <i>Prerequisite: GSS-1100 Politics and American Culture.</i> (even years) | | | |
| HIST-3750 Social Movements–Fa, Sp | 3 hours | HLMU-3310 Music History I–Fa, Su | 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 | 3 hours | | |
| Examines diplomatic relations among the world's most powerful nations, focusing on 20th century diplomacy and the future of international relations in the 21st century. Crosslisted as HIST, INTL, or POLS. <i>Prerequisite: POLS/INTL-3650 International Relations or permission of instructor.</i> | | | |
| HIST-4440 Special Topics: History | 1–3 hours | HLMU-3320 Music History II–Sp, Su | 3 hours |
| Investigation of specific topics in social science and history that have intrinsic worth and engage student interest. | | | |
| HIST-4500 Seminar–Fa, Sp | 3 hours | | |
| This course exposes students to the academic literature and major concepts in a historical field or subject in a seminar setting. The topic will vary by the professor's expertise, but will be in some area of American history, European history, non-Western history, or the history of Christianity. | | | |
| HIST-4700 Research in History–Sp | 3 hours | HLMU-3400 Global Music–Fa | 3 hours |
| All history majors are required to take HIST-4700, the senior capstone course. Each student will prepare a formal monograph. <i>Prerequisite: Major or minor in history.</i> (Fee: \$80) | | | |
| HIST-4900 | 1–3 hours | HLMU-3410 Traditional Irish Music–Fa | 2 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. <i>Prerequisite: Permission of the instructor.</i> | | | |
| Music History (HLMU) | | | |
| HLMU-2100 | 2 hours | HLMU-3420 Music of the Church–Fa | 3 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. <i>Prerequisites: THMU-1220 Music Theory II; THMU-1320 Aural Skills II.</i> (even years) | | | |
| HLMU-2310 Introduction to Music Literature–Sp,Su | 3 hours | HLMU-3910 Writing and Research in Music I | 1 hour |
| 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-3910 Writing and Research in Music I | | | |
| This is the first of two courses designed to develop the writing and research skills in music that are necessary for professional success. <i>Prerequisite: Junior status or permission of instructor.</i> | | | |
| HLMU-4910 Writing and Research in Music II | 1 hour | HLMU-4110 Choral Literature–Sp | 3 hours |
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| This is the second of two courses designed to develop the writing and research skills in music that are necessary for professional success. <i>Prerequisite: HLMU-3910 Writing and Research in Music I or permission of instructor.</i> | | | |
| 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.

Honors (HON)

Freshman Humanities Sequence: HON-1010, 1020

The Making of the Modern Mind 10 hours

HON-1010 The Classical and Medieval Ages 5 hours

This course explores the development of historical, religious, philosophical, and artistic movements from creation to the 16th century. Emphasis is given to historical influence between intellectual eras and biblical evaluation of historical worldviews.

HON-1020 5 hours

Renaissance, Reformation, and Revolutions

This course explores the development of historical, religious, philosophical, and artistic movements from the 16th century to the present. Emphasis is given to historical influence between intellectual eras and biblical evaluation of historical worldviews.

HON-3020 Honors Seminar 2 hours

Investigation of special topics that have intrinsic worth and engage student interest. Seminars are focused on the liberal arts from an interdisciplinary perspective. Past offerings include: C.S. Lewis; Biblical Canon; Music and Nationalism; Change, Emergence, or Design?; and Human Personhood. This course is repeatable. Prerequisites: HON-1010 *The Classical and Medieval Ages*; HON-1020 *Renaissance, Reformation, and Revolutions*.

HON-4900 Independent Study in Honors 1–3 hours

Independent and intensive study in a particular area for individual students who demonstrate special interests and ability. Prerequisites: HON-1010 *The Classical and Medieval Ages*; instructor approval.

HON-4910 Honors Senior Colloquium I 1 hour

Development of a generic understanding of the integration of faith, learning, and life.

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.

Humanities (HUM)

HUM-1400 Introduction to the Humanities–Fa, Sp 3 hours

Historical study of the relationship of music, art, and literature to the dominant cultural, religious, and philosophical trends and their relationship to Christian theism. (Fee:\$75)

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.

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. Prerequisites: ART-2230 *Three-Dimensional Design*; VCD-1050 *Applied Design; Tech Tools I*.

IDES-3120 Drawing in Dynamic Perspective II–Fa 3 hours

Building on the visual authority and refined hand-drawing skills developed in Drawing in Dynamic Perspective I, this course explores in greater depth the application of advanced perspective principles in problem-solving scenarios for a diverse range of “core content” industrial design exercises. Prerequisite: IDES-3110 *Drawing in Dynamic Perspective I*.

IDES-3210 Language of Line–Fa 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 4 hours

Through the use of the latest digital and traditional design tools, students will develop and demonstrate their previously learned skills and knowledge in industrial design, creative problem-solving, and visual communication techniques by way of market-relevant studio exercises, hands-on design labs, and experiential-learning projects. Prerequisite: IDES-3120 *Drawing in Dynamic Perspective II*.

IDES-3310 3 hours

Fundamentals of Surface Development I–Sp

This study will introduce the principles of creating innovative shapes, forms, and volumes, and explore how they in turn influence manufacturing systems. Students will engage in using a variety of materials such as paper, structural foam, plastics, glass, wood, etc., to successfully convey a three-dimensional model interpretation. Prerequisite: IDES-3220 *Innovative Media Systems*.

IDES-3320 3 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 4 hours

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.*

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 Professional and Ethical Practices in Design–Sp 4 hours

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 Design Project: Selection Statement, Research, and Scope–Sp 3 hours

With staff and professional support, the candidates will embark on a research journey to discover real-world, market-applicable design solution research within a selected area of specialization. *Prerequisite: IDES-4200 Professional and Ethical Practices in Design.*

IDES-4400 Design Project and Presentation–Sp 10 hours

In this capstone course, candidates will be assisted in completing their portfolio presentation skills, business case development, professional practices, and receive a professional written and oral critique of their work. *Prerequisite: IDES-4300 Design Project: Selection Statement, Research, and Scope.*

International Studies (INTL)
INTL-2100 Global Issues–Sp 3 hours

Analysis of the international issues that are shaping our contemporary and future world, ranging from terrorism, the environment, international crime, disease, and collapsing states to the digital revolution and the global economy. *Prerequisite: GSS-1100 Politics and American Culture.*

INTL-3040 History and Politics of the British Isles and Canada–Sp 3 hours

This course examines three countries: the United Kingdom, the Republic of Ireland, and Canada. After an extensive topical history along with a discussion of major prime ministers who served in the 19th and 20th centuries, this course also investigates contemporary issues including foreign policy, recent political debates, secessionist problems in Scotland and Quebec, membership in the European Union, and the ongoing structural changes to government. Crosslisted as GEO, HIST, and POLS. (odd years)

INTL-3080 History of Russia and Eastern Europe–Fa 3 hours

See course description for GEO-3080 History of Russia and Eastern Europe. (even years)

INTL-3200 History and Politics of Latin America–Fa 3 hours

See course description for GEO-3200 History and Politics of Latin America. (odd years)

INTL-3210 History and Politics of East Asia–Fa 3 hours

See course description for GEO-3210 History and Politics of East Asia. (even years)

INTL-3220 History and Politics of the Middle East–Sp 3 hours

See course description for GEO-3220 History and Politics of the Middle East.

INTL-3230 History and Politics of Western Europe–Sp 3 hours

See course description for GEO-3230 History and Politics of Western Europe. (even years)

INTL-3400 History of American Foreign Policy–Fa 3 hours

American statesmen have defended the principles of their government and the rights of American citizens in a world of empires and nation-states. This course provides an overview of controversies over independence and imperialism, modern tyranny and regime change, which have marked U.S. foreign policy from the founding to the present day. Crosslisted as HIST or POLS. *Prerequisite: GSS-1100 Politics and American Culture.* (even years)

INTL-3650 International Relations–Fa 3 hours

A survey of contemporary international affairs and principles of interstate relations, focusing on forces that unite and divide our world. Crosslisted as INTL or POLS.

INTL-3790 Comparative Politics–Fa 3 hours

This course will familiarize students with major historical developments, political debates, and scholarly research in the subfield of comparative politics. Particular emphasis will be placed on topics of the modern state, nationalism, economic development, political culture and ideology, identity structure, regime types, regime transitions, and comparative political economy. Crosslisted as POLS or INTL.

INTL-4050 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.



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| INTL-4440 Special Topics: International Studies 1–3 hours | INTM-3300 Advanced Topics in Programming Languages –Fa 3 hours |
| Investigation of specific topics in Social Science and History that have intrinsic worth and engage student interest. | 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. <i>Prerequisite:</i> <i>ITM-2300 Introduction to Programming.</i> (even years) (Fee: \$20) |
| INTL-4800 Seminar in International Studies –Fa 3 hours | INTM-3400 Data Communications and Networking –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. | 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. <i>Prerequisite:</i> <i>ITM-1900 Fundamentals of IT Management</i> or permission of instructor. (Fee: \$50) |
| INTL-4900 Senior Research –Sp 3 hours | INTM-3410 Topics in Information Technology Management –Fa, Sp, Su 1–3 hours |
| Senior capstone thesis course in which students engage in original research and writing for the completion and defense of thesis before a committee of professors. Course emphasizes substantive cross-disciplinary and biblical integration within research topic. Crosslisted with GSS. <i>Prerequisite:</i> <i>GSS-3640 Qualitative Methodology and Reasoning; or permission of instructor.</i> (Fee: \$80) | A variety of courses are covered under this heading on an experimental basis to meet the changing needs of the students. (crosslisted with ENTR-3410 Topics in Entrepreneurship) |
| INTL-4980 Independent Study in International Studies 1–3 hours | INTM-3450 IT Security and Risk Management –Sp 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. <i>Prerequisite:</i> <i>Permission of the instructor.</i> | This course provides an introduction to the fundamental principles and topics of information technology security and risk management 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. <i>Prerequisites:</i> <i>CY-3420 Cyber Defense; or ITM 3400 Data Communications and Networking.</i> |
| Information Technology Management (ITM) | INTM-3500 Web Development –Fa 3 hours |
| INTM-1510 Software Tools for Business –Fa, Sp 2 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. <i>Prerequisite:</i> <i>ITM-2300 Introduction to Programming.</i> (even years) (Fee: \$20) |
| INTM-1900 Fundamentals of IT Management –Sp 3 hours | INTM-3550 Enterprise Architecture –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. | 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. <i>Prerequisite:</i> <i>ITM-2300 Introduction to Programming.</i> |
| INTM-2100 Database Management –Fa 3 hours | INTM-3600 Business Process Management –Fa, Sp 3 hours |
| This course covers database fundamentals while providing a broad survey of the field's major topics. Students learn about the critical nature of databases within Information Technology Management (ITM) contexts. Topics include data storage and retrieval, data modeling, logical and physical design, concurrency and security issues, stored procedures, and triggers. Students apply those topics by creating and managing databases in a SQL Server environment. <i>Prerequisite:</i> <i>ITM-1510 Software Tools for Business.</i> (Fee: \$20) | 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. |
| INTM-2300 Introduction to Programming –Sp 3 hours | |
| Intended as the first programming course for Information Technology Management (ITM) majors, this course will introduce the student to the process of programming and to the syntax and usage of the C# programming language. The programming assignments will encourage students to analyze problems in a logical, intentional, and structured manner so that they can develop well-constructed programs using structured and object-oriented programming techniques. <i>Prerequisite or Corequisite:</i> <i>ITM-1900 Fundamentals of IT Management</i> (Fee: \$20) | |

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| ITM-3650 Enterprise Systems–Sp | 3 hours | ITM-4900 IT Strategy–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. <i>Prerequisite: ITM-2100 Database Management.</i> (even years)(Fee: \$50) | | 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. <i>Prerequisites: Open only to seniors in ITM who have completed all 1000–3000 level business courses.</i> | |
| ITM-4150 | 3 hours | | |
| Advanced Business Analytics and Visualization | | | |
| This course will explore the field of data analytics by covering state-of-the-art modeling, analysis, and visualization techniques. The course will emphasize the importance of understanding the underlying data, validating the data, applying a meaningful analytic to the data, and only then visualizing the data. The course will discuss practical challenges involving complex real-world data and include several case studies and hands-on work with a modern data analysis and visualization package. Crosslisted with BUS. <i>Prerequisite: BUS-2170 Introduction to Business Analytics.</i> (odd years) | | | |
| ITM-4300 Advanced Topics in IT Management–Sp | 3 hours | JOURNALISM (JOUR) | |
| 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) | | JOUR-1000 Multiplatform Journalism I–Fa | 3 hours |
| ITM-4400 Systems Analysis and Design–Fa | 3 hours | This intensive writing course prepares students to write news copy for print, online, and broadcast video and radio. Students learn basic journalistic practices and writing formats and will progress from exercises to original reporting. (Fee: \$75) | |
| 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. <i>Prerequisite: ITM-2100 Database Management.</i> | | JOUR-2000 Multiplatform Journalism II–Sp | 3 hours |
| ITM-4450 IT Audit and Controls–Fa | 3 hours | This course builds on the primary journalistic skills and theories learned in JOUR-1000. Students will begin to polish interviewing, writing, and reporting skills for print, video, audio, and social media through original reporting of stories in deadline and non-deadline situations. <i>Prerequisite: JOUR-1000 Multiplatform Journalism I.</i> (Fee: \$75) | |
| 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. <i>Prerequisite: ITM-3400 Data Communications and Networking.</i> (odd years) (Fee: \$50). | | JOUR-2500 Introduction to Public Relations–Fa | 3 hours |
| ITM-4500 System Development–Sp | 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. | |
| 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. <i>Prerequisites: ITM 3500-Web Development; ITM-4400 System Analysis and Design.</i> (even years) | | JOUR-3150 Media Ethics–Fa | 3 hours |
| | | This course examines the rights and responsibilities of the journalist in American society. It examines and applies federal and state laws and regulations associated with the media. Topic areas will include the journalist and the first amendment, access to government information, libel, and privacy. Special attention will be given to legal issues related to new media. Crosslisted with BRDM-3150. <i>Prerequisite: Junior or Senior status.</i> | |
| | | JOUR-3350 Television News Production–Sp | 3 hours |
| | | This course teaches broadcast journalism students to produce stories for TV news and understand the components of studio production of TV news programs. <i>Prerequisite: BRDM-2110 Video Production.</i> (even years) (Fee: \$75) | |
| | | 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. <i>Prerequisites: JOUR-1000 Multiplatform I and JOUR-2000 Multiplatform II or permission of instructor.</i> (even years) (Fee: \$50) | |



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| JOUR-3500 | 3 hours | JOUR-4600 Magazine Writing–Sp | 3 hours |
| Public Relations Principles and Writing–Sp | | This course covers the techniques of writing in-depth articles for mass circulation and specialized magazines. Students will learn the process of writing and submitting feature articles as well as analysis of markets for freelance magazine articles. Students will prepare and submit professional quality manuscripts for publication. <i>Prerequisites: JOUR-1000 Multiplatform Journalism I; JOUR-2000 Multiplatform Journalism II; or permission of the instructor.</i> | |
| 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. | | | |
| <i>Prerequisite: JOUR-2500 Introduction to Public Relations.</i> | | | |
| JOUR-3550 | 3 hours | JOUR-4610 Photojournalism–Sp | 3 hours |
| Advanced Public Relations Writing–Sp | | 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. (Fee: \$50) | |
| 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, backgrounder, 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. <i>Prerequisite: JOUR-3500 Public Relations Principles and Writing.</i> | | | |
| JOUR-3605 | 3 hours | JOUR-4620 Data and Investigative Reporting–Sp | 3 hours |
| Writing and Design for Web and Mobile Media–Sp | | This course teaches the tools and techniques to use data and other investigative tools and resources to produce in-depth stories. The content will focus on serving the public interest by acting as a watchdog on government, business, education, health, environment, safety, and other organizations. Freedom will be given to produce stories on platforms that fit career goals. | |
| 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. | | <i>Prerequisites: JOUR-1000 Multiplatform Journalism I I; JOUR-2000 Multiplatform Journalism II; or permission of instructor. (odd years) (Fee: \$50)</i> | |
| JOUR-3650 Networked Audience–Fa | 3 hours | JOUR-4650 | 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. | | Designing Solutions for New Audiences–Sp | |
| <i>Crosslisted as BRDM. (Fee:\$10)</i> | | 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. <i>Prerequisite: JOUR/BRDM-3650 Networked Audience.</i> | |
| JOUR-3900 Practicum in Journalism–Fa, Sp | 1 hour | JOUR-4810 Special Topics in Journalism–Fa | 3 hours |
| Development of news stories for transmission to print, broadcasting and online media outlets within the University (Cedars, In the Loop, Resound Radio, Cedars Online) either individually or as a member of a team under the supervision of a faculty mentor. The practicum is organized in a news agency format with a rotating editorial board. Repeatable up to 3 times. | | 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. | |
| <i>Prerequisites: JOUR-1000 Multiplatform Journalism I; JOUR-2000 Multiplatform Journalism II; or permission of the instructor. (even years) (Fee: \$50)</i> | | Topics may include photojournalism, sports journalism, international news, news and religion, news media management, magazine, editing, opinion writing, and business and financial reporting. <i>Prequisites: Permission of instructor. (even years) (Fee: \$50)</i> | |
| JOUR-4420 Feature Reporting–Fa | 3 hours | JOUR-4820 Special Topics in Public Relations–Sp | 3 hours |
| Students will study feature storytelling styles with an emphasis on narrative. Freedom will be given to produce stories on platforms that fit career goals. Blogging will also be an important exercise. | | 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. | |
| <i>Prerequisites: JOUR-1000 Multiplatform Journalism I; JOUR-2000 Multiplatform Journalism II; or permission of the instructor. (even years) (Fee: \$50)</i> | | Topics may include crisis communication, agency management, event planning, and international public relations. <i>Prerequisites: JOUR-3550 Advanced Public Relations Writing; or permission of instructor. (even years)</i> | |
| JOUR-4500 Public Relation Campaigns–Sp | 3 hours | JOUR-4910 Multiplatform Seminar–Sp | 3 hours |
| Uses case studies to examine the role of public relations in organizational communication campaigns. Incorporates a problem-solving approach that enables students to apply various public relations techniques to real-world situations. <i>Prerequisite: JOUR-3550 Advanced Public Relations Writing.</i> | | This senior-level class will tie together the students' reporting and news presentation skills, resulting in a reporting project that will use text, visuals, and audio. The project will align with career goals, putting emphasis on the each student's preferred platform of reporting. Studentw will also study the work of professionals and industry trends. (Fee: \$50) | |
| JOUR-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. <i>Prerequisite: JOUR-3500 Public Relations Principles and Writing; or by permission of instructor.</i> | | | |

Korean (KOR)

KOR-1510 Elementary Korean I–Fa **4 hours**

Introduction to Korean language and culture with emphasis on developing skills in listening, speaking, reading, and writing in Korean.

KOR-1520 Elementary Korean II–Sp **4 hours**

Introduction to Korean language and culture with emphasis on developing skills in listening, speaking, reading, and writing in Korean. *Prerequisites: KOR-1510 Elementary Korean I, instructor approval, or placement by exam.*

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 **3 hours**

Discussion of pedagogical problems involving intermediate students; evaluations of piano literature and investigation of specific aspects of piano pedagogy through readings and discussion. Survey of piano literature and its predecessors—clavichord, harpsichord, and pianoforte—from the early English virginal music to the present time. *Prerequisite: KPMU-2010 Keyboard Pedagogy I.*

KPMU-3110, 3120 Directed Teaching–Fa, Sp **1 hour each**

Supervised teaching experience in a private or class format with beginning to intermediate-level piano students. *Prerequisites: KPMU-2010, 2020 Keyboard Pedagogy I and II. (Fee: \$50)*

KPMU-4110, 4120 Directed Teaching–Fa, Sp **2 hours each**

Supervised teaching experience in a private or class format with beginning to intermediate-level piano students. *Prerequisites: KPMU-2010, 2020 Keyboard Pedagogy I and II. (Fee: \$50)*

KPMU-3150 Keyboard Pedagogy Seminar I–Fa **2 hours**

Designed to develop critical and creative teaching approaches for students of varying personality and learning styles with application to theory, technique, and music concepts needed by primary and elementary-level piano students in both private and group settings. *Prerequisites: KPMU-2010, 2020 Keyboard Pedagogy I and II.*

KPMU-3160 Keyboard Pedagogy Seminar II–Sp **2 hours**

Survey of representative Baroque through 20th century literature for the advanced pre-college pianist. The course is enhanced with videos, required readings, and discussion relative to topics such as performance anxiety, technique, and performance style. *Prerequisites: KPMU-2010, 2020 Keyboard Pedagogy I and II.*

KPMU-4150 Keyboard Pedagogy Seminar III–Fa **2 hours**

Pedagogical methods and techniques using electronic studio in-class teaching. The course is enhanced with videos, required readings, and discussion relative to group teaching. *Prerequisites: KPMU-2010, 2020 Keyboard Pedagogy I and II.*

KPMU-4160 Keyboard Pedagogy Seminar IV–Sp **2 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.

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 BA of Liberal Arts degree program and senior status.*

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–Sp **3 hours**

Phonetics is the study and classification of speech sounds, within the broader study of phonology, the study of the sound system of language. This course builds on the theories of phonology and provides opportunities for practical application of the theories. Students will work with the International Phonetic Alphabet (IPA) in classifying sounds in standard and nonstandard forms of English and will consider and classify the sounds of other languages. *Prerequisites: LING-2070 Introduction to Linguistics; LING-3080 Linguistics for Language Learning.*

LING-3090 Sociolinguistics–Fa **3 hours**

An overview of the relationship between language and society. Topics covered include ethnicity, social contact, change, and issues related to minority students such as education, immigration, migration, demographics, and historical and legal precedents. The student will also gain knowledge and cultural understanding of minority groups in Ohio. *Prerequisite: Degree seeking students only.*

LING-3100 Principles of Language Acquisition–Sp **3 hours**

The practical side of the study of linguistics is the study of how language is acquired, both by children learning to speak and by adults learning a second language. This course will present the basic theories of both types of language acquisition and will provide students the opportunity to do original research in the field. *Prerequisite: Degree-seeking students only; sophomore, junior, or senior status only. LING-3080 Linguistics for Language Learning.*

LING-3200 Special Topics in Linguistics–Fa, Sp, Su **1–3 hours**

Independent study in a selected field for students with special interests and demonstrated ability in the field of Linguistics.

Prerequisites: LING-2070 Introduction to Linguistics; LING-3080 Linguistics for Language Learning; LING-3082 Phonetics; LING-3090 Sociolinguistics; LING-3100 Principles of Language Acquisition.



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| LING-3500 | 3 hours | LING-4210 Senior Research in Linguistics I–Fa | 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. <i>Prerequisites: Degree-seeking students only; sophomore, junior, or senior status only; LING-3100 Principles of Language Acquisition; permission of instructor or advisor.</i> | (crosslisted with SPAN-3500) | | |
| LING-3610 | 2 hours | LING-4220 Senior Research in Linguistics–Sp | 1 hour |
| TESOL Practicum for Education Majors–Sp | | | |
| Independent teaching of ESL students under the general supervision of a master teacher. In a K–12 placement under the supervision of a qualified ESL teacher, the student will practice teaching in a formal classroom situation. During this 50-hour experience, the student will be provided opportunities to establish goals and objectives and design curricula that reflect Ohio's grade level learning outcomes in content areas. The student will also be given opportunities to select, adapt, create, and use varied resources appropriate to age, cultural groups, and different learning styles. Activities should include integrating technology in planning and delivering instruction and strategies for creating and maintaining communication with families. Practicum will also provide the student with knowledge and skills in assessment. <i>Prerequisites: ENG-3060 The English Language; ENG-3070 English Grammar; LING-3080 Linguistics for Language Learning; LING-3100 Principles of Language Acquisition; and LING-3500 Methods of Teaching Foreign Language. (Fee: \$50)</i> | | | |
| LING-3710 | 2 hours | Literature (LIT) | |
| TESOL Practicum for Non-Education Majors–Sp | | LIT-1990 First-Year Seminar–Fa, Sp | 3 hours |
| Practice teaching of ESL under general supervision of master teacher for non-education majors who are completing TESOL minor or concentration requirements. During this 60-hour experience, the student will be provided opportunities to establish goals and objectives and design curricula appropriate to age, cultural groups, and different learning styles. <i>Prerequisite: degree-seeking students only; sophomore, junior, or senior status only; ENG-3070 English Grammar; LING-3080 Linguistics for Language Learning; LING-3100 Principles of Language Acquisition; LING-3500 Methods of Teaching Foreign Language.</i> | (Fee: \$50) | This course will provide instruction in the close reading of and the analytical writing about literary texts. <i>Prerequisites: ENG-1400 Composition.</i> | |
| LIT-2090 Literary Analysis–Fa, Sp | 3 hours | 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. <i>Prerequisite: LIT-1990 First-Year Seminar</i> | |
| LIT-2130 Dramatic Literature–Sp | 3 hours | LIT-2130 Dramatic Literature–Sp | 3 hours |
| | | Study of the historical development of dramatic styles, theory, criticism, and construction. Can be applied to meet English or speech requirements, but not both. Crosslisted with THTR. (even years) | |
| LIT-2300 Introduction to Literature–Fa, Sp | 3 hours | 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. <i>Prerequisite: ENG-1400 Composition.</i> | |
| LIT-2330 World Mythology–Fa, Sp | 3 hours | LIT-2330 World Mythology–Fa, Sp | 3 hours |
| | | Study of selected world mythologies and the role of myth and myth making, with an emphasis on non-Greco-Roman cultures, to increase the student's ability to read mythologies analytically and appreciatively. <i>Prerequisite: ENG-1400 Composition.</i> | |
| LIT-2340 Western Literature–Fa, Sp, Su | 3 hours | LIT-2340 Western Literature–Fa, Sp, Su | 3 hours |
| | | Survey of major works of Western literary tradition from Homer to T.S. Eliot. <i>Prerequisite: ENG-1400 Composition.</i> | |
| LIT-2390 | 3 hours | LIT-2390 | 3 hours |
| Survey of American Literature to 1900–Fa, Sp | | 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. <i>Prerequisite: ENG-1400 Composition.</i> | |
| LIT-2430 Survey of British Literature to 1800–Fa | 3 hours | LIT-2430 Survey of British Literature to 1800–Fa | 3 hours |
| | | Study of various English authors from the Anglo-Saxons to 1800. Although this course may be taken for general education credit, it is primarily designed for majors. <i>Prerequisite: ENG-1400 Composition.</i> | |

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| LIT-2440 | 3 hours | LIT-3420 American Novel–Sp | 3 hours |
| Survey of British Literature from 1800 to Present–Sp | | Study of the historical development of the American novel and an analysis of the writings of major American novelists from Cooper to Roth. <i>Prerequisite: ENG-1400 Composition.</i> (even years) | |
| 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. <i>Prerequisite: ENG-1400 Composition.</i> | | | |
| LIT-3090 Literary Research and Recovery–Sp | 3 hours | LIT-3440 Multiethnic American Literature–Fa | 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. <i>Prerequisite: ENG-1400 Composition.</i> (odd years) | | 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. <i>Prerequisite: ENG-1400 Composition.</i> (odd years) | |
| LIT-3100 | 3 hours | LIT-3460 Contemporary East Asian Literature–Fa | 3 hours |
| Contemporary Young Adult Literature–Sp | | This course introduces students to contemporary literature from East Asia focusing primarily on works in translation from China, Japan, and Korea. <i>Prerequisite: ENG-1400 Composition.</i> (odd years) | |
| 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. <i>Prerequisite: ENG-1400 Composition.</i> | | | |
| LIT-3170 | 3 hours | LIT-3510 Modern American Literature–Fa | 3 hours |
| Studies in American Literature: 1820–1865–Sp | | Study of major American authors of the 20th century. <i>Prerequisite: ENG-1400 Composition.</i> (odd years) | |
| Intensive study of American authors who wrote within the historical context of years 1820–1865. Authors may include Emerson, Thoreau, Fuller, Whitman, Dickinson, Douglass, Jacobs, Stowe, Poe, Hawthorne, Melville, and others. <i>Prerequisite: ENG-1400 Composition.</i> (even years) | | | |
| LIT-3180 | 3 hours | LIT-3520 C.S. Lewis and The Inklings–Sp | 3 hours |
| Studies in American Literature: 1865–1914–Sp | | Study of Lewis' contributions in the fields of literature, criticism, and apologetics. Special attention will be placed on understanding Lewis' personal and intellectual development, his relationships with contemporary scholars and writers, and his continuing influence. <i>Prerequisite: ENG-1400 Composition.</i> (odd years) | |
| Intensive study of American authors who wrote within the historical context of the years 1865–1914. Authors may include Twain, Howells, James, Wharton, Hopkins, Jewett, Freeman, Chesnutt, Crane, Johnson, DuBuis, Wells, Dreiser, Norris, Alcott, Zitkala-Sa, and others. <i>Prerequisite: ENG-1400 Composition.</i> (odd years) | | | |
| LIT-3230 Directed Readings–Fa, Sp | 1–3 hours | LIT-3530 Graphic Novel–Fa | 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. <i>Prerequisite: ENG-1400 Composition.</i> | | 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 dessinées. 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. <i>Prerequisites: ENG-1400 Composition; major status or permission of the instructor.</i> (even years) | |
| LIT-3310 The English Novel–Fa | 3 hours | LIT-3540 American Women Writers–Sp | 3 hours |
| Reading and critical analysis of representative novels written in English. Authors include Fielding, Barnes, Rushdie, Gordimer, and Greene. <i>Prerequisite: ENG-1400 Composition.</i> (odd years) | | 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. <i>Prerequisite: ENG-1400 Composition.</i> (even years) | |
| LIT-3320 Renaissance Literature–Sp | 3 hours | LIT-4100 Studies in Integrated Language Arts–Sp | 3 hours |
| A study of Metaphysicals, Milton, and other selected Renaissance writers. <i>Prerequisite: ENG-1400 Composition.</i> (odd years) | | 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. <i>Prerequisites: ENG-1400 Composition; EDUC-2050 Teaching Diverse Learners, currently enrolled in LIT-3100 Principles of Teaching Adolescent and Young Adult, or permission of instructor.</i> | |
| LIT-3350 Shakespeare–Fa | 3 hours | LIT-4200 English Seminar–Sp | 3 hours |
| Representative comedies, history plays, tragedies, and sonnets. <i>Prerequisite: ENG-1400 Composition.</i> | | 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. <i>Prerequisite: ENG-1400 Composition.</i> | |
| LIT-3380 Contemporary British Literature–Fa | 3 hours | | |
| Study of representative and significant 20th century British writers, especially those reflective of modern ideologies. <i>Prerequisite: ENG-1400 Composition.</i> (even years) | | | |
| LIT-3400 | 3 hours | | |
| Contemporary Studies in World Literature–Fa | | | |
| Study of contemporary literature outside the American and British traditions. Writers may include Chinua Achebe, Nadine Gordimer, Duong Thu Huong, Gabriel Garcia Marquez, Haruki Murakami, V.S. Naipaul, Moniru Ravanipur, Jose Saramago, Tatyana Tolstoya, Luisa Valenzuela, Gao Xingjian, and others. <i>Prerequisite: ENG-1400 Composition.</i> (even years) | | | |



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. *Prerequisite: ENG-1400 Composition.*

LIT-4310 Literary Theory–Fa 3 hours

A study of theoretical literary contexts. Special consideration will be given to economic, political, psychological, linguistic and cultural contexts. *Prerequisite: ENG-1400 Composition.*

LIT-4420 European Novel–Sp 3 hours

Study of the 19th- and 20th-century influences on the novel from Dostoevsky to Camus. *Prerequisite: ENG-1400 Composition. (even years)*

LIT-4450 Milton: Poetry and Selected Prose–Fa 3 hours

A study of Milton's early poetry, *Paradise Lost*, *Paradise Regained*, *Samson Agonistes*, and selected prose works. *Prerequisite: ENG-1400 Composition. (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. *Prerequisite: ENG-1400 Composition.*

LIT-4510 Recent American Literature 1945–Present–Fa 3 hours

A study of the social, political, economic, and religious issues that defined the American experience in the last half of the 20th century. Diverse poetry, short stories, drama, novels, and films will be analyzed to give students an understanding of the myriad subjectivities that have shaped American values and attitudes since World War II. *Prerequisite: ENG-1400 Composition. (even years)*

Multi-Age Health Education (MAHE)

MAHE-3030 Nutrition–Fa, Sp 3 hours

A study of the science of nutrition, together with the study of eating habit formation and modification for optimal wellness, fitness, and performance, presented from a Christian perspective.

MAHE-3070 Current Issues in Health–Fa 1 hour

Designed to explore, from a Christian perspective, health-related issues that challenge our society. This course recognizes the reality that there are "no easy answers" as ethics, technology, and economics merge to generate new dilemmas of increasing complexity every day.

MAHE-3130 School Health Program–Sp 3 hours

Analysis of the scope of the school health program, including health services, healthful school living, and health instruction.

MAHE-3150 Health Concepts for the Educator–Sp 3 hours

This course is intended to prepare students to understand the role of the health educator in the comprehensive school health education program. Nutrition, drug education, sexuality education, mental and emotional health unit content areas will be addressed from a biblical perspective.

MAHE-4610 Teaching Health–Fa 3 hours

The teacher's role in comprehensive school health education including an introduction to the health status of youth, at-risk students, objectives from Healthy People 2020, components of comprehensive school health education, the role of the teacher in school health services, and special health concerns of today's children and youth. As well, curriculum review, behavioral objectives, life skills, scope and sequence of learning, teaching strategies, responsible decision-making, resistance skills, health behavior contracts, health resources, student-learner evaluation, and assessment concepts and procedures will be presented. *Prerequisite: Admission to the Teacher Education Program. (Odd years)*

MAHE-4850 1–3 hours

Independent Study in Health Education–Fa, Sp

Independent study in the area of health education by students pursuing multi-age health education teaching licensure or a health promotion minor. *Prerequisite: Departmental approval is required.*

Multi-Age Physical Education (MAPE)

MAPE-1000 Foundations of Physical Education–Fa 1 hour

Orientation to the history, philosophy, and scope of modern exercise and sport science from a theistic perspective.

MAPE-1500 Teaching Sport Concepts and Skills–Fa 1 hour

This course is an introduction to the tactical games approach in teaching physical education. Preparing students for learning games and important principles of game teaching will be addressed. The course will include the concept of tactical transfer and the process of teaching within a game. The course will promote an interest in the game-learning process, an understanding of playing a game, and the ability to play a game. The course is presented from the biblical perspective of the teaching profession as it relates to physical education.

MAPE-2000 Recreational Games–Fa 2 hours

Theory and practice in frisbee games (disc golf, ultimate), flag football, softball, and spikeball with attention given to various teaching methods, skills, and rules. *Prerequisite: MAPE-1500 Teaching Sport Concepts. (Fee: \$25)*

MAPE-2300 Net Games–Fa 2 hours

Theory and practice in volleyball, tennis, badminton, and pickleball with attention given to various teaching methods, skills, and rules. *Prerequisite: MAPE-1500 Teaching Sport Concepts. (Fee: \$25)*

MAPE-2600 Invasion Games–Sp 2 hours

Theory and practice in basketball, soccer, team handball, and speedball with attention given to various teaching methods, skills, and rules. *Prerequisite: MAPE-1500 Teaching Sport Concepts and Skills. (Fee: \$25)*

MAPE-2900 Lifetime Physical Fitness–Sp 2 hours

Fundamentals in improving cardiorespiratory endurance, muscular strength and endurance, flexibility, balance, and circuit training with attention given to various teaching methods, exercises and drills. *(Fee: \$25)*

MAPE-3600 5 hours

Physical Education in the Elementary School–Sp

An overview of the place of physical education in the elementary school curriculum with an emphasis on the study of current program content design, teaching techniques, assessment concepts and procedures, as well as modifying activities for the purpose of inclusion for the physically challenged. SHAPE standards aligned with assessment and the analysis of student learning are a vital part of this course.

MAPE-4500 2 hours

Curriculum Development in Physical Education–Fa

Overview of the curriculum process in physical education, specifically giving attention to the theoretical base, process of curriculum design, and curriculum development for elementary through high school educational programs. *Prerequisite: MAPE-3600 Physical Education in the Elementary School; Corequisite: MAPE-4950 Methods of Secondary Physical Education.*

MAPE-4850 1–3 hours

Independent Study in Physical Education–Fa, Sp

Independent study by major students of advanced standing toward the understanding and appreciation of problems in physical education. This course gives students an opportunity to develop skills in the use of literature and in the appropriate techniques of problem solving. *Prerequisite: Departmental approval is required.*

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| MAPE-4950 | 3 hours | MATH-1720 Calculus II–Fa, Sp | 5 hours |
| Methods of Teaching Secondary Physical Education–Fa | | The second course of a two-course sequence covering the basic concepts of analytic geometry and single variable calculus. Includes techniques of integration such as integration by parts, trigonometric substitution and partial fractions, improper integrals and L'Hopital's rule, sequences, series, expansion of functions into Taylor and power series, conic sections, plane curves, calculus of parametric equations and polar coordinates, vectors and geometry in three-space, vector-valued functions and curvature. | |
| 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. | | <i>Prerequisite: Admission to the Teacher Education Program.</i> | |
| MAPE-4960 Field Experience–Fa | 4 hours | MATH-1880 Topics in Calculus–Fa, Sp, Su | 1–3 hours |
| A field experience within the MAHPE and MAPE majors in conjunction with MAPE-4950 Methods of Teaching Secondary Physical Education and MAPE-4970 Field Experience in Physical Education-Special Populations. This course requires a current Ohio FBI Background Clearance Report to be on file in the School of Education for the duration of the field experience. <i>Prerequisite: Admission to the Teacher Education Program.</i> Credit/no credit. (Fee: \$100) | | 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. <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.</i> | |
| MAPE-4970 | 2 hours | MATH-1990 | 3 hours |
| Field Experience in Physical Education–Special Populations–Fa | | Beautiful Math Structures and Thinking–Fa | |
| An adapted physical education teaching field experience taken in conjunction with MAPE-4950 and MAPE 4960 that seeks to provide the opportunity for application of adapted physical education content and theory studied in MAPE-4950 Methods of Teaching Physical Education. This course requires a current Ohio FBI Background Clearance Report to be on file in the School of Education for the duration of the field experience. <i>Prerequisites: Admission to the Teacher Education Program; MAPE-4950 Methods of Teaching Physical Education; MAPE-4960 Field Experience.</i> (Fee: \$35) | | 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. | |
| Mathematics (MATH) | | MATH-2210 Logic and Methods of Proof–Fa | 3 hours |
| MATH-1700 | 4 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. <i>Prerequisites: MATH-1720 Calculus II; MATH-1990 Beautiful Math Structures and Thinking; or permission of instructor.</i> | |
| Calculus and Dynamical Systems for the Life Sciences–Fa, Sp | | MATH-2510 Discrete Math for Computer Science–Sp | 3 hours |
| An introductory calculus and dynamical systems course for majors in the life sciences. Discrete and continuous dynamical systems, limits and derivatives, including derivatives of trigonometric, exponential, logarithmic and inverse trigonometric functions, applications of derivatives and dynamical systems, including related rates and optimization, differential equations, integrals - both definite and indefinite - and their applications, and possibly analysis of autonomous differential equations. <i>Prerequisite: GMTH-1030 Precalculus or equivalent; or permission of instructor.</i> | | 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 BA or BS in mathematics or the BA in integrated mathematics education. <i>Prerequisite: MATH-1710 Calculus I.</i> | |
| MATH-1710 Calculus I–Fa, Sp | 5 hours | MATH-2520 | 3 hours |
| First course of a two-course sequence covering basic concepts of analytic geometry and single variable calculus. Includes limits and single variable calculus. Includes limits and derivatives of algebraic and transcendental functions, applications of the derivative, single variable integration, including the Fundamental Theorem of Calculus and integration by substitution, and applications of integration, including solving differential equations and finding volumes of revolution. <i>Prerequisite: GMTH-1030 Precalculus or equivalent; or permission of instructor.</i> | | Discrete Math and Probability Principles for Computer Science–Sp | |
| | | An introduction to mathematical foundations of computer science, including propositional and predicate calculus, methods of proof, sets and relations, recurrences, program correctness and proofs, probability models, random variables, probability distributions, estimation, and hypothesis testing. This course does not satisfy any requirements for the BA or BS in mathematics or the BA in integrated mathematics education <i>Prerequisites: MATH-1720 Calculus II; EGCP-1010 Digital Logic Design.</i> | |
| MATH-2710 Calculus III–Fa, Sp | 3 hours | 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. <i>Prerequisite: MATH-1720 Calculus II or equivalent or permission of instructor.</i> | |

MATH-2740 Differential Equations–Fa, Sp **3 hours**

Study of the standard techniques employed in the solution of differential equations with emphasis on those arising from physical problems. *Prerequisite: MATH-1720 Calculus II or equivalent.*

MATH-2800 LaTeX for Technical Documents–Sp **1 hour**

In this course students will be introduced to the typesetting language of LaTeX through the use of tutorials, example documents, and homework assignments. They will learn to easily prepare professional-looking theses, conference papers, and journal papers. They will also learn how to create professional-looking presentations, homework, quizzes, examinations, syllabi, résumés, and curriculum vitae.

MATH-3050 **4 hours**

Algebraic Structures for Secondary Education Majors–Fa

An introduction to the basic ideas of number theory, abstract algebra, and linear algebra. Factorization of integers, congruence modulo m, Fermat's Theorem, groups, rings, integral domains, fields, vector spaces, systems of linear equations, determinants and inverses, linear transformations, eigenvalues, and eigenvectors. Does not count toward BA or BS majors in mathematics. *Prerequisites: MATH-2210 Logic and Methods of Proof. (even years)*

MATH-3110 Probability and Statistics–Sp **3 hours**

Probability models, random variables, probability distributions, estimation, and hypothesis tests are studied from theoretical and practical viewpoints. *Prerequisite: MATH-1720 Calculus II.*

MATH-3120 Theory of Probability–Sp **3 hours**

Topics include combinatorial analysis, axioms of probability, conditional probability, independent events, Bayes' Formula, random variables, expected value, variance, discrete distributions, continuous distributions, joint distributions, the Law of Large Numbers, and the Central Limit Theorem. *Prerequisites: MATH-2710 Calculus III; MATH-2210 Logic and Methods of Proof*

MATH-3240 Introduction to Operations Research–Fa **3 hours**

Formulation and analysis of mathematical models for the optimal solution of decision-making problems under certainty. Course content includes linear programming; the simplex method, duality and sensitivity analysis. This course applies probabilistic analysis to such nondeterministic models as queueing models, elements of dynamic programming, and Markov decision analysis. *Prerequisites: MATH-3610 Linear Algebra; or permission of the instructor. (even years)*

MATH-3500 Number Theory–Fa **3 hours**

Introduction to most of the topics of elementary number theory such as modular arithmetic, prime factorizations, linear diophantine equations, the Chinese remainder theorem, quadratic reciprocity, Pythagorean triples, number theoretic functions, and related topics. Concrete examples will illustrate the concepts and abstract reasoning will develop the theories considered in the course. *Prerequisite: MATH-2210 Logic and Methods of Proof. (odd years)*

MATH-3550 Discrete Math: Graph Theory–Fa **3 hours**

Introduction to the basic concepts of graph theory and discrete mathematics problem-solving. Topics covered include elements of graph theory, covering circuits, graph coloring, trees and searching, and network algorithms. *Prerequisite: MATH-2210 Logic and Methods of Proof. (odd 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 or MATH-2520 Discrete Math and Probability Principles for Computer Science. (odd years)*

MATH-3610 Linear Algebra–Sp **3 hours**

Introduction to the algebra of linear equations, including determinants, matrices, vector spaces, eigenvalues, eigenvectors, and linear mappings. *Prerequisite: MATH-1720 Calculus II or equivalent.*

MATH-3710 Advanced Calculus–Sp **3 hours**

Topics in function theory, vector analysis, differential calculus of several variables, vector differential calculus of several variables, integral calculus of several variables, vector integral calculus of several variables, and infinite series. *Prerequisite: MATH-2710 Calculus III or equivalent or permission of instructor. (even years)*

MATH-3740 Complex Variables–Sp **3 hours**

Introduction to complex arithmetic, differentiation: analytic functions, Cauchy-Riemann equations, harmonic functions, elementary functions and their mapping properties, integration: Cauchy's Theorem, Cauchy's Integral Formula, Taylor and Laurent series, poles, residues, and the residue theorem. *Prerequisite: MATH-1720 Calculus II. (odd years)*

MATH-3750 Introduction to Dynamical Systems–Sp **3 hours**

Topics include one-dimensional flows and bifurcations, phase portraits, linearization and classification of equilibrium points, limit cycles, chaos, one-dimensional maps, and fractals. *Prerequisite: MATH-2740 Differential Equations. (even years)*

MATH-3760 Numerical Analysis–Sp **3 hours**

Analysis of computational error, solutions of equations of one variable, interpolation, numerical differentiation and integration, finite difference methods for solving ordinary differential equations, solving linear algebraic systems, and least squares approximations. *Prerequisites: CS-1210 C++ Programming; MATH-2710 Calculus III; MATH-2740 Differential Equations. (odd years)*

MATH-3800 Research Methods–Sp **1 hour**

This course will introduce the mathematics major to the various resources and methods available for researching topics in mathematics. This could include the use of library resources at Cedarville University, use of Internet resources, WWW searches, and a tour of the library at a larger university, where journals and indices of importance can be referenced. *Prerequisites: MATH-2210 Logic and Methods of Proof; ENG-1400 English Composition. (Fee: \$50)*

MATH-4130 Mathematical Statistics–Fa **3 hours**

Topics include random variables, normal sampling theory, likelihood-based and Bayesian approaches to point estimation, confidence intervals, tests of hypotheses, and an introduction to regression and the analysis of variance. *Prerequisites: MATH-2210 Logic and Methods of Proof; MATH-2710 Calculus III; MATH-3110 Probability and Statistics or MATH-3120 Theory of Probability; MATH-3610 Linear Algebra. (odd years)*

MATH-4210 Mathematical Methods for Physicists–Fa **3 hours**

Advanced mathematical methods used in the solution of physics problems. Topics include curvilinear coordinates, vector analysis, and solutions to partial differential equations using Fourier, Bessel and Legendre functions. *Prerequisites: MATH-2710 Calculus III; MATH-2740 Differential Equations. (odd years)*

MATH-4410 **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 R_n and functions including continuity and uniform continuity, connectedness, convexity, compactness, various types of convergence, limits, differentiability, and Riemann integration, measurability, and Ln. *Prerequisites:* MATH-2210 Logic and Methods of Proof. (odd years)

MATH-4800 3 hours
Capstone Experience in Mathematics–Fa, Sp

The course will allow students to deeply research an important topic in mathematics, both individually and collectively, and to present their findings from library research as well as personal work. *Prerequisites:* MATH-3800 Research Methods in Mathematics; 15 hours of MATH courses 2XXX-level or above; permission of instructor. (Fee: \$20)

MATH-4880 Topics in Mathematics–Fa, Sp 1–3 hours

Some typical topics are linear programming, numerical analysis, stochastic calculus, non-parametric statistics, partial differential equations, or mathematical modeling. This course is intended to be a topic not in the current curriculum that is a logical extension and development of the student's academic plan. *Prerequisite:* permission of instructor.

MATH-4900 1–3 hours
Independent Study in Mathematics–Fa, Sp

Independent research in the various branches of mathematics and allied fields of application. Submission and approval of a research proposal must precede registration. *Prerequisite:* Major in mathematics or permission of research advisor.

Molecular Biology (MBIO)
MBIO-3210 Advanced Cell Biology–Sp 4 hours

In-depth study of the cell will include the following topics: biochemical and electrical properties of membranes, the endomembrane system, molecular machines and cellular organization, normal cell physiology and division, differentiation, signaling pathways and gene regulation, and programmed cell death. Three lectures and one three-hour laboratory per week. *Prerequisites:* BIO-1115 Biology I: Cell Biology; CHEM-1120 General Chemistry II or permission of the instructor. (Fee \$100)

MBIO-4220 Signal Transduction–Fa 4 hours

Study of major cellular signaling pathways and their physiological functions in homeostasis and disease. Applications to development, organ and tissue homeostasis, and conditions arising from aberrant signaling, such as cancer. Emphasis upon current discoveries and analysis of current, peer-reviewed literature in the field. Three (50-minute) lectures per week and one laboratory per week. *Prerequisites:* MBIO-3210 Advanced Cell Biology or permission of instructor. (odd years)

MBIO-4250 Biology of Cancer–Fa
4 hours

Study of cancer including classification of cancer, pathophysiology of the disease in terms of signal transduction and gene regulation, and mechanisms behind current and experimental treatments for the disease. Three (50-minute) lectures per week and one laboratory per week. *Prerequisites:* MBIO-3210 Advanced Cell Biology or permission of instructor. (even years)

MBIO-4300 Molecular Biology–Fa
4 hours

Study of the molecules that make up the living cell with an emphasis on nucleic acid biology. Three lectures and one (three-hour) laboratory per week. *Prerequisites:* BIO-3300 Genetics; BIO-3710 Biochemistry. (Fee: \$100)

MBIO-4310 Eukaryotic Gene Regulation–Sp
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:* MBIO-4300 Molecular Biology.

MBIO-4370 Virology–Sp
3 hours

The concepts and methods of virology are covered, with emphasis on animal viruses, within the framework of cell biology, genetics, molecular biology, immunology, pathology, and epidemiology. Viral replication will be examined in detail. The effects that viruses inflict on host cells will also be examined, as will some of the host cell responses generated by such virus-cell interactions, including interferon induction, the antiviral response generated by interferon, and oncogenic transformation. In addition, an overview of procedures used for prevention and treatment of viral diseases via vaccines and antiviral drugs, respectively, will be presented. *Prerequisite:* BIO-3300 Genetics. (even years)

Management (MGMT)
MGMT-3500
3 hours
Principles of Organization and Management–Fa, Sp

An examination of the policies, principles, practices, and problems involved in the management of organizations as they are currently being applied in the United States and around the world to meet or exceed customer's expectations.

MGMT-3510
3 hours
Entrepreneurship and Small Business Management–Fa

This course will introduce students to business innovation and entrepreneurship in small and large organizations. The basics of envisioning, evaluating, starting, and running a brand new business and/or a new business unit within an existing organization will be explored. (crosslisted with ENTR-3510 Entrepreneurship and Small Business Management)

MGMT-3525 Service and Production Operations–Fa 3 hours

This course introduces management concepts, methodologies, and application to service and production operations. The course develops an understanding of the role of OM and how management decisions in product or service design, analysis and development of processes bring value to both the customer and the organization. *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–Fa 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.



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| MGMT-3560 Project Management–Fa | 3 hours | MGMT-4560 | 3 hours |
| This course will lay a foundation for an understanding of project management principles. It will examine principles, processes, and tools project managers have developed to effectively manage and lead projects. | | Organizational Change and Development–Sp | |
| MGMT-3580 | 3 hours | This course focuses on the theories, concepts, processes, and tools of leading successful organizational change, as changes involve sensitivity to issues that arise at the individual, interpersonal, and institutional levels as well as building the organization's capacity to both adapt to change and generate innovation. <i>Prerequisite: MGMT-3500 Principles of Organization and Management or permission of instructor.</i> | |
| Compensation and Benefits Management–Sp | | MGMT-4570 Lean Operations Management–Sp | 3 hours |
| 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. <i>Prerequisites: MGMT-3500 Principles of Organization and Management; MGMT-3530 Human Resources Management; or permission of instructor.</i> (even years) | | 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. <i>Prerequisite: MGMT-3525 Service and Production Operations; or permission of instructor.</i> (Fee: \$50) | |
| MGMT-3650 Construction Materials and Methods–Sp | 3 hours | MGMT-4580 | 3 hours |
| This course introduces students to construction materials and methods. The following concepts are presented: (a) site investigation, (b) construction material characteristics, (c) construction methods, (d) equipment types and uses, and (e) equipment production rates and costs. (Fee: \$50) (odd years) | | Construction Planning and Scheduling–Sp | |
| MGMT-3690 | 3 hours | This course introduces students to theory and application of construction scheduling to control the acquisition, movement, storage, and utilization of workers, material, and equipment with emphasis given to the Critical Path Method (CPM). (even years) | |
| Construction Contracts and Delivery Methods–Fa | | MGMT-4590 Construction Estimating–Fa | 3 hours |
| This course introduces students to the various aspects of construction contracts and documentation procedures including contract delivery methods and selection criteria. The course includes issues involving contract law and ethics. (even years) | | This course introduces students to advanced concepts in estimating including but not limited to labor and equipment calculations, the use of price databases, direct and indirect cost, bid preparation and computer applications. (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. <i>Prerequisites: FIN-3710 Principles of Finance; MGMT-3500 Principles of Organization and Management; MRKT-3600 Principles of Marketing.</i> (Fee: \$50) | | | |
| MGMT-4520 Supply Chain Management–Sp | 3 hours | Army ROTC (MIL) | |
| 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. <i>Prerequisites: BUS-2150 Statistics for Business; MGMT-3525 Service and Production Operations.</i> (Fee: \$50) | | Army ROTC courses are offered through Cedarville University in collaboration with the Army ROTC detachment located at Central State University. While Army ROTC courses are included in the Cedarville University course schedule for registration purposes, classes, labs, and physical training are usually conducted on the campuses of Central State University and Cedarville University. Cedarville University provides transportation for off-site classes. | |
| MGMT-4530 Industrial Relations Management–Sp | 3 hours | MIL-1000 Leadership Lab I | 0 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. <i>Prerequisites: MGMT-3500 Principles of Organization and Management.</i> (odd years) | | Applied Army ROTC training. Taken concurrently with 1000-level MIL courses. | |
| MGMT-4550 Applied Leadership–Fa, Sp | 3 hours | MIL-1010,1020 Military Science I | 2 hours/sem |
| 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. <i>Prerequisite: MGMT-3500 Principles of Organizational Management; or permission of instructor.</i> | | 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 | 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 | 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 | MIL-3000 Leadership Lab III | 0 hours |
| | | Applied Army ROTC training. Taken concurrently with 3000-level MIL courses. | |

MIL-3010,3020 Military Science III
3 hours/sem

The junior year of military science is completely dedicated to developing leadership skills and preparing students for the six-week Advanced Camp in the summer of the junior year. Subjects covered are drill, leadership, marksmanship training, squad and team tactics with leadership exercises and advanced navigation training on day and night courses. Students 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.*

Marketing (MRKT)
MRKT-3410 Topics in Marketing–Fa, Sp, Su
1–3 hours

A variety of topics are covered under this heading on an experimental basis. This allows the department to meet the changing needs of the students without formally adding or dropping courses.

MRKT-3600 Principles of Marketing–Fa, Sp
3 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. *Prerequisites: 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. *Prerequisite: MRKT-3600 Principles of Marketing*

MRKT-4610 Marketing Strategy–Sp
3 hours

This is the culminating course for marketing majors. Its purpose is to build on what has been learned in prior marketing and business coursework in order to form a comprehensive and integrated perspective of strategic marketing management. Students will apply their knowledge in broad-based contexts in order to deepen their ability to develop cohesive and effective strategic and tactical marketing plans. Must be taken at Cedarville University; transfer or transient credit for this course will generally not be accepted. *Prerequisites: Senior status; twelve hours of marketing including MRKT-3600 Principles of Marketing, MRKT-3630 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.*

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.*



| Music Education (MUED) | |
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| MUED-1000 NAFME –Fa, Sp | 0 hours |
| The National Association for Music Education exists to advance music education by encouraging the study and making of music by all. NAFME is the primary professional organization for music educators. The campus chapter provides informative seminars including a focus on Value Added Assessment along with service activities. NAFME offers music educators a connection to the professional world of music education and increased understanding of the role of NAFME in the field of music teaching. All music education majors are required to enroll in this course as part of their professional development and career preparation. A minimum of 8 semesters of satisfactory participation is required. (Fee: \$60) | |
| MUED-2730 | 2 hours |
| Wind and Percussion Methods for Music Educators –Sp | |
| Class instruction in basic playing and teaching of all band instruments. Required for the vocal major pursuing the Bachelor of Music Education degree and instrumental performance majors; open to others by permission of the instructor. (Fee: \$40) (even years) | |
| MUED-2870 Brass Methods for Music Educators –Fa | 2 hours |
| Class instruction in basic playing and teaching of the brass instruments – trumpet, horn, trombone, baritone, tuba. (Fee: \$40) (even years) | |
| MUED-2900 Guitar Methods for Music Educators –Sp | 1 hour |
| Class instruction in basic playing and teaching of guitar. Required of music education majors pursuing the choral track. Open to other students by permission of instructor. (Fee: \$40) | |
| MUED-2910 | 2 hours |
| Woodwind Methods for Music Educators –Sp | |
| Class instruction in basic playing and teaching of the woodwind instruments – flute, oboe, clarinet, saxophone, and bassoon. (Fee: \$40) (even years) | |
| MUED-2930 String Methods for Music Educators –Fa | 2 hours |
| Class instruction in basic playing and teaching of the string instruments – violin, viola, cello, string bass. (Fee: \$40) (odd 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 | 2 hours |
| Philosophy, objectives, and techniques of offering vocal instruction at all levels with emphasis on vocal production and pedagogical approaches. Prerequisite: CLMU-1860 Voice Class or completion of sophomore vocal review. | |
| 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) | |

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| 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. | |
| Nursing (NSG) | |
| NSG-1000 Member of Nursing Profession –Fa, Sp, Su | 2 hours |
| An introduction to and application of professional nursing roles within the U.S. and global healthcare systems. Includes discussion of ways of thinking, professional ethics, Christian values, and factors that motivate and influence Christian nurses. As members of the profession, students are introduced to the use of information management skills, concepts of care, and the culture of the profession from a biblical and Christian framework. (Fee: \$150) | |
| NSG-1050 Health Promotion and Wellness –Fa, Sp, Su | 3 hours |
| Through course content, theories of health and wellness are explored as foundational concepts of the professional nursing role. Students are introduced to the principles of nutrition, culture and diversity, development across the lifespan, and multi-dimensional nursing care. The development of a biblical worldview related to health and wholeness is emphasized. Prerequisite: NSG-1000 Member of Nursing Profession or by permission of instructor; corequisite: NSG-1055 Experiences in Health Promotion. (Fee: \$150) | |
| NSG-1055 Experiences in Health Promotion –Sp, Su | 1 hour |
| Clinical and laboratory experiences provide the student with opportunities to apply concepts of health promotion, wellness, nutrition, communication, hygiene, sleep, exercise, and safety to the care of patients and families. Prerequisites: NSG-1000 Member of Nursing Profession; corequisite: NSG-1050 Health Promotion and Wellness; or permission of instructor. (Fee \$150) | |
| NSG-1170 Cross-Cultural Motivation –Fa, Sp, Su | 1 hour |
| This course is designed to have students explore and understand their own cultural beliefs and values, in order to begin the process of becoming culturally responsive nurses in a variety of healthcare settings. Students will learn how to articulate their worldview of nursing, the constructs of the nursing metaparadigm, and how to begin viewing nursing as a ministry for Christ. | |

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| 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: GBIO-2210 Principles of Microbiology; CHEM-1000 Principles of Chemistry; GBIO-2015 Anatomy and Physiology II; NSG-2000 Roles in Disease Prevention; or by permission of instructor.* (Fee: \$300)

NSG-2170 Cross-Cultural Awareness–Fa, Sp, Su 1 hour

This course is designed to explore the nursing metaparadigm's concept of culture; developing the student's ability to observe, engage, and connect with a culture other than a student's own. The students will learn how to, with beginning proficiency, assess and explore their own cultural biases in order to better understand both their and other culture's nuisances, values, and beliefs.

NSG-2800 Special Topics in Nursing–Fa, Sp 1–3 hours

Selected topics in nursing at the 2000-level that will complement existing 1000- and 2000-level courses to expose students to topics not taught in previous course work. The specifics of the course are determined by the faculty of the School of Nursing at the request of the student. *Prerequisites: Permission of associate dean for undergraduate nursing program and instructor.* (Fee: \$50 if lab component)

NSG-3000 Care of III Adults–Fa, Sp 6 hours

Focus is on common physiological imbalances of adults and nursing care required to restore or promote health balances across the five dimensions. Critical thinking, assessment, and communication skills consistent with biblical principles will be utilized to manage information and provide culturally appropriate care. Students will demonstrate competency in technical skills and the professional nursing role within the clinical setting.

Prerequisite: Junior nursing major status. (Fee: \$300)

NSG-3010 Care of Women and Newborns–Fa, Sp 6 hours

Course content and clinical experiences provide the student with the opportunity to facilitate the health balance of women and the childbearing family across the five dimensions. Students interact to support family members in their changing roles as they manage resources in response to new demands. Cultural implications for care of the childbearing family are presented.

Prerequisite: Junior nursing major status. (Fee: \$300)

NSG-3030 Care of Children–Fa, Sp 6 hours

The research process is studied as an evidence-based approach to the investigation of nursing and healthcare problems. Basic elements of the research process, including ethical issues, are included and applied to research, research summaries, and clinical practice guidelines. Students evaluate strength of evidence for application to nursing practice. *Prerequisite: Junior nursing major status.* (Fee: \$300)

NSG-3050 6 hours

Behavioral and Mental Healthcare–Fa, Sp

Introduces aspects of developing therapeutic relationships involving one-to-one and group interactions to achieve client-focused and professional goals. Focus is on effective communication as a member of the profession and provider of care. Using a Christian worldview, students analyze frameworks for promoting and restoring healthy relationships. Students participate in integration of care with other members of the interdisciplinary healthcare team in a variety of settings. Emphasis is on imbalances in thinking, emotions, and behaviors that interfere with individual and group processes and require external intervention to promote balance. *Prerequisite: PYCH-1600 General Psychology; Junior nursing major status.* (Fee: \$300)

NSG-3110 Pharmacology–Sp 3 hours

Pharmacokinetics, pharmacodynamics, and pharmacotherapeutics of major drug categories are discussed as they are used to restore health balance. Special emphasis is given to the ways in which pharmacological agents may create new health demands. Nursing actions to prevent or minimize these demands are discussed. *Prerequisites: GBIO-2210 Principles of Microbiology; CHEM-1000 Principles of Chemistry; GBIO-2015 Human Anatomy and Physiology II; NSG-2000 Roles in Disease Prevention; permission of instructor.* (Fee: \$150)

NSG-3170 Culture and Health–Fa, Sp, Su 3 hours

This course is designed to investigate principles of medical and cultural anthropology in the context of population health. The students will learn by examining situations in which cross-cultural dilemmas emerge from the intersection of culture and health and analyze these situations to derive models for resolution.

Prerequisite: Junior/Senior status or permission of instructor.

NSG-3270 1 hour

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 the student's culture. The length of time involved in the internship may vary according to the student's need for cross-cultural nursing credit hours. *Prerequisites: Completion of all junior level nursing courses or permission of instructor.*

NSG-3800 Nursing Externship–Su 1–4 hours

The focus is on exploration of nursing roles within precepted clinical experiences. Students apply critical thinking to promote and restore health using the Cedarville University School of Nursing Curricular Model. Emphasis is given to application of biblical truth in healthcare delivery and in addressing common ethical and legal issues encountered by nurses. *Prerequisites: Completion of all junior-level nursing courses.*

NSG-3930 3 hours

Nursing Research and Evidence-Based Practice–Fa, Sp

The research process is studied as an evidenced-based approach to the investigation of nursing and healthcare problems. Basic elements of the research process, including ethical issues, are included and applied to research, research summaries, and clinical practice guidelines. Students evaluate strength of evidence for application to nursing practice. *Prerequisites: Junior nursing major status; PYCH-2610 Statistics.* (Fee: \$150)

NSG-4000 Care of Populations–Fa 6 hours

Students focus on contemporary health issues of populations and communities using theoretical models of epidemiology, health promotion, primary healthcare, and public health practice. Students integrate knowledge from the health, social, and nursing sciences to population and community health nursing through targeted assessment, interventions, programs, and advocacy.

Prerequisite: Senior nursing major status. (Fee: \$300)

NSG-4020 Leadership and Management–Sp 6 hours

The focus is on the development of leadership and management knowledge and behaviors required for the baccalaureate prepared nurse. Special emphasis is given to the biblical framework for leadership and management. Simulated experiences in leadership labs provide opportunities to apply leadership and management principles and theories as providers, managers, and coordinators of nursing care. *Prerequisite: Senior nursing major status.* (Fee: \$250)

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)

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| NSG-4060 Transition Into Practice –Sp | 6 hours | PFMU-3220 Worship Ensemble –Fa, Sp | 0–1 hours |
| Students assume professional nursing roles (member of profession, provider of care, and manager 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. | | 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. | |
| <i>Prerequisite: Completion of all other clinical nursing courses. (Fee: \$300)</i> | | <i>Prerequisite: Admission by audition only.</i> | |
| NSG-4170 Cross-Cultural Response –Fa, Sp, Su | 1 hour | PFMU-3650 Chamber Ensemble –Fa, Sp | 0–1 hours |
| This course is designed to be a culmination course for the cross-cultural nursing minor. Students will learn to connect their personal vision/calling, knowledge, skills, and desire to provide culturally responsive nursing care. Additionally, they will re-examine the Christian worldview of nursing using a biblical foundation and incorporating what they have learned throughout the program. | | 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. | |
| <i>Prerequisites: Permission of instructor; approval of the chair.</i> | | PFMU-3800 Concert Chorale –Fa, Sp | 0–1 hours |
| NSG-4800 Independent Study in Nursing –Fa, Sp | 1–3 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. | |
| Independent learning to secure an extensive background in a specialized area of nursing. May be repeated once. | <i>Prerequisite: signed contract between student and instructor in which work to be completed is described.</i> | | |
| NSG-4950 Seminar in Nursing –Sp | 3 hours | PFMU-3820 Men's Glee Club –Fa, Sp | 0–1 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 healthcare. Capstone course. | <i>Prerequisite: NSG-4030 Complex Care Management. Corequisite: NSG-4020 Leadership and Management, NSG-4060 Transition into Practice. (Fee: \$250)</i> | 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. | |
| Physical Education Activity Courses (PEA) | | PFMU-3840 Women's Choir –Fa, Sp | 0–1 hours |
| PEA-1240 through PEA-2100 Courses | 1–2 hours each | 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. | |
| Each course is designed to develop knowledge and skills in the respective activity area. Course requirements include examinations covering the activity subject, skills tests, class participation, and aerobics requirements. Grading options include letter grades or credit/no credit. If taken for letter grades, majors may use these courses to satisfy specific curricular requirements. | | PFMU-3850 Opera Ensemble –Fa | 0–1 hours |
| PEAE-1400 Weight Training : Coed–Fa, Sp | 1 hour | The coaching, staging, and performance of operatic literature in scenes, recitals, or full-scale productions. | |
| PEAI-1600 Racquetball : Coed (Fee: \$15)–Fa | 1 hour | PFMU-3880 Brass Choir –Fa, Sp | 0–1 hours |
| PEAL-1610 Rock Climbing : Coed (Fee: \$25)–Fa, Sp | 1 hour | 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. | |
| PEAR-2100 Rhythmic : Coed–Fa | 1 hour | 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. | |
| Physical Education Fitness (PEF) | | PFMU-3970 Wind Symphony –Fa, Sp | 0–1 hours |
| PEF-1990 | 2 hours | The wind symphony is composed of 50–60 members, selected by audition. The ensemble performs a wide variety of wind literature and participates actively in the commissioning and performance of new music. The ensemble presents two concerts per semester and performs additional concerts and events both on and off campus. | |
| Physical Activity and Healthy Living –Fa, Sp, Su | | PFMU-3980 Jazz Band –Fa, Sp | 0–1 hours |
| 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) | | 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 Performance (PFMU) | | | |
| PFMU-3100 Piano Ensemble –Fa, Sp | 0–1 hours | | |
| The Piano Ensemble is an organization of advanced pianists that meets weekly to perform duet and duo piano literature. The Ensemble performs publicly on a regular basis. | | | |
| PFMU-3210 Jubilate –Fa, Sp | 0–1 hours | | |
| Ministry team of 40 select voices; open to all students by audition. Repertoire is selected from a wide spectrum of musical styles in evangelical traditions. Meets twice a week. Annual tour spring semester. | | | |

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 School of Science and Mathematics unless they are specifically listed in the curriculum requirements for a major. A student majoring in science or mathematics may take these courses only as electives. However, any course listed for a science or mathematics major or minor may also count toward fulfilling general education requirements.

PHYS-1010 College Physics I–Fa 4 hours

Basic concepts of mechanics using algebra and trigonometry. This is the first of a two course sequence intended for students in the life sciences and pre-professional programs. Topics include kinematics, motion in two dimensions, force and motion, torque and rotation, work and energy, momentum, circular motion, gravitation, oscillation, waves and fluid. Three lectures and one two-hour laboratory per week. *Prerequisite: High school trigonometry; or GMTH-1030 Precalculus or equivalent.* (Fee: \$75)

PHYS-1020 College Physics II–Sp 4 hours

Basic concepts of electricity, magnetism and modern physics using algebra and trigonometry. This is the second of a two course sequence intended for students in the life sciences and pre-professional programs. Topics include electricity, magnetism, circuits, and geometrical and physical optics, relativity theory, quantum theory and nuclear physics topics. Three lectures and one two-hour laboratory per week. *Prerequisite: PHYS-1010 College Physics I or equivalent.* (Fee: \$75)

Physics: Major (PHYS)
PHYS-2010 Introductory Physics Lab I–On Demand 1 hour

This course is for students who are attempting to transfer credit for physics classes with no hands-on lab experience. PHYS-2010 will substitute for PHYS-1010 College Physics I or PHYS-2110 General Physics I. Upon approval of this course, the student will register for this course and be assigned to a lab section of the corresponding course being approved. (Fee: \$100)

PHYS-2020 Introductory Physics Lab II–On Demand 1 hour

This course is for students who are attempting to transfer credit for physics classes with no hands-on lab experience. PHYS-2020 will substitute for PHYS-1020 College Physics II or PHYS-2120 General Physics II. Upon approval of this course, the student will register for this course and be assigned to a lab section of the corresponding course being approved. (Fee: \$100)

PHYS-2110 General Physics I–Fa, Sp 4 hours

Basic concepts of mechanics using calculus. This is the first of a three-course sequence intended for students in the physical sciences and engineering programs. Topics include linear and rotational motion in three dimensions, oscillatory motion, gravitation, fluid mechanics, and basic concepts of wave motion. Three lectures and one two-hour laboratory per week. *Prerequisites: MATH-1710 Calculus I; Corequisite: MATH-1720 Calculus II.* (Fee: \$100)

PHYS-2120 General Physics II–Fa, Sp 4 hours

Basic concepts of electricity and magnetism, light, and optics using calculus. This is the second of a three-course sequence intended for students in the physical sciences and engineering programs. Topics include electricity, magnetism, Maxwell's equations, DC and AC circuits, geometrical and physical optics. Three lectures and one two-hour laboratory per week. *Prerequisites: MATH-1720 Calculus II; PHYS-2110 General Physics I.* (Fee: \$100)

PHYS-2130 General Physics III–Fa 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–Sp 2 hours

Designed to reinforce concepts of the advanced physics courses and develop critical research and analysis skills. This course will focus on library, research, and laboratory skills for planning, setup, documentation, analysis using the scientific method. Selected software will be introduced and used to collect data, analyze results, and document findings. Laboratory experience includes such topics as oscillatory motion and waves, mechanics, electricity and magnetism, thermodynamics, and quantum mechanics. *Prerequisite: PHYS-2130 General Physics III.* (Fee: \$100)

PHYS-3310 Theoretical Mechanics–Sp 3 hours

Derivation of the motion of a point object through three-dimensional space. Topics include an advanced treatment of Newtonian mechanics in three dimensions, oscillatory motion, accelerated frames of reference, central forces, and an introduction to Lagrangian mechanics. *Prerequisites: PHYS-2120 General Physics II; MATH-2740 Differential Equations; MATH-2740 may be co-enrolled with permission of instructor.* (even years)

PHYS-3330 Acoustics–Fa 3 hours

This course will study the generation, transmission and reception of sound. Topics include wave propagation through the air, resonance conditions for strings, bars, membranes and air cavities, acoustic filters, measurement and human perception of sound. Applications will be made to musical instruments, room acoustics, microphones, and speakers. *Prerequisites: MATH-2710 Differential Equations; PHYS-2110 General Physics I.* (even years)

PHYS-3350 Thermal Physics–Sp 3 hours

Study of the relationship between energy and matter through the use of thermodynamics and statistical mechanics. Topics include the laws of thermodynamics, heat, work, entropy, phase transformations, statistical distributions, and kinetic theory.

Prerequisite: PHYS-2130 General Physics III. (odd years)

PHYS-3410 Electromagnetic Theory–Fa 3 hours

Electricity and magnetism from an advanced viewpoint using the methods of vector calculus. Includes electrostatics, Gauss' Law, Poisson's equation, Laplace's equation, dielectric media, electric currents, and magnetostatics. *Prerequisites: PHYS-2120 General Physics II; MATH-2710 Calculus III.* (odd years)

PHYS-3510 Modern Physics–Sp 3 hours

Introduction to relativity theory, quantum theory, including Schrodinger's Equation, and its basic applications, and atomic structure. *Prerequisite: PHYS-2130 General Physics III.*

PHYS-3810 Research in Physics–Fa 1 hour

Students participate in research projects under the direction of a faculty member. The projects could be experimental or computational depending on the instructor's expertise. Students will learn fundamentals of the methodology, collect data in the lab or by running programs, then analyze results, and present their findings. *Prerequisite: PHYS-3110 Intermediate Physics Laboratory, and 3 hours of another 3000- or 4000-level physics course; Corequisite: If the 3000- or 4000-level prerequisite course is not satisfied, a corequisite course of the same level would be satisfactory.* (Fee: \$150)



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 Laboratory*. (Fee: \$100)

PHYS-4210 Mathematical Methods for Physicists–Fa 3 hours

Advanced mathematical methods used in the solution of physics problems. Topics include curvilinear coordinates, vector analysis, and solutions to partial differential equations using Fourier, Bessel and Legendre functions. *Prerequisites: MATH-2710 Calculus III; MATH-2740 Differential Equations.* (odd years)

PHYS-4520 Quantum Mechanics–Fa 3 hours

An introduction to the principles and theory of quantum mechanics including: the wave function, the time-independent Schrodinger's Equation, mathematical formalism of quantum mechanics, quantum mechanics in three dimensions, and systems of identical particles. *Prerequisite: PHYS-3510 Modern Physics.* (even years)

PHYS-4800 Senior Seminar–Physics–Fa, Sp 1 hour

A presentation of the basic principles of the major disciplines of the sciences with a focus on the interrelationships of the science disciplines to each other. Students present a paper from library or laboratory research in their area of physics with a focus on integration. Each student must obtain approval of the topic from their advisor and seminar instructor and must set the date of presentation before enrolling in the course. A paper and oral presentation are required that include the background, setup, data collection, analysis, and conclusions from their research. The student must also attend a minimum of 10 seminars during the senior year. Guest lecturers and faculty members may present papers at the invitation of the instructor. *Prerequisite: Senior status; PHYS-3110 Intermediate Physics Laboratory; 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)

Music Private Study (PLMU)

Private instruction for credit in piano, voice, guitar, orchestral and band instruments, and composition is available to all music majors. Private lessons are open to non-majors, also. Inquiries about non-major lessons should be directed to the administrative assistant in the Department of Music and Worship.

Credit in performance lessons is based on a minimum of six hours of practice and one half-hour lesson per week for one hour of credit. An audition is required for initial registration. Continued registration is based on satisfactory progress as determined each semester by the instructor. (Fees: private lesson fee \$300 and practice room fee \$100 per credit hour)

PLMU-1000, 2000, 3000, 4000 Organ

1–2 hours

PLMU-1100, 2100, 3100, 4100 Piano

1–2 hours

PLMU-1200, 2200, 3200, 4200 Voice

1–2 hours

PLMU-1300, 2300, 3300, 4300 Trumpet

1–2 hours

PLMU-1310, 2310, 3310, 4310 Trombone/Baritone Horn

1–2 hours

PLMU-1320, 2320, 3320, 4320 French Horn

1–2 hours

PLMU-1330, 2330, 3330, 4330 Tuba

1–2 hours

PLMU-1400, 2400, 3400, 4400 Clarinet

1–2 hours

PLMU-1410, 2410, 3410, 4410 Flute

1–2 hours

PLMU-1420, 2420, 3420, 4420 Saxophone

1–2 hours

PLMU-1430, 2430, 3430, 4430 Oboe

1–2 hours

PLMU-1440, 2440, 3440, 4440 Bassoon

1–2 hours

PLMU-1500, 2500, 3500, 4500 Violin

1–2 hours

PLMU-1510, 2510, 3510, 4510 Viola

1–2 hours

PLMU-1520, 2520, 3520, 4520 Cello

1–2 hours

PLMU-1530, 2530, 3530, 4530 Bass

1–2 hours

PLMU-1550, 2550, 3550, 4550 Harp

1–2 hours

PLMU-1600, 2600, 3600, 4600 Guitar

1–2 hours

PLMU-1700, 2700, 3700, 4700 Percussion

1–2 hours

PLMU-1800 Private Lessons in Composition–Fa, Sp

1 hour

PLMU-1810, 2810, 3810, 4810 Contemporary Piano–Fa, Sp

1–2 hours

Prerequisites: Music or worship student, or instructor approval.

PLMU-1820, 2820, 3820, 4820 Contemporary Voice–Fa, Sp

1–2 hours

Prerequisites: Music or worship student, or instructor approval.

PLMU-1830, 2830, 3830, 4830 Contemporary Guitar–Fa, Sp

1–2 hours

Prerequisites: Music or worship student, or instructor approval.

PLMU-2800, 3800, 4800 Music Composition

1–2 hours

PLMU-3900 Junior Recital

1 hour

Music major performance emphasis students should register for this course the semester they are ready to present their junior recital. Program is presented in a half recital format. (Fee: \$50)

PLMU-3920 Junior Composition Project–Fa, Sp

1 hour

The culminating project for juniors majoring in musical composition. This project is akin to a half-recital and will consist of a substantial composition 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-4920 Senior Project–Sp

1 hour

The capstone project for the BA in Music degree. Students may register for this course at the same time as Senior Seminar. (Fee: \$75)

Political Science (POLS)

POLS-2100 Topics–Fa, Sp

2 hours

Culturally oriented, topical classes designed to introduce students to political thinking from an academic perspective. Possible topics could include: Politics and Film, Politics & Sport, Politics & Music, The War on Terror, Jane Austen, From Media to Social Media, Dictators & Demagogues, Scalia v. Ginsburg, Campaign 2020.

POLS-2620 American State and Local Government–Sp 3 hours

The organization and function of states and their political subdivisions form the basis of study in this course.

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| POLS-3040 | 3 hours | POLS-3730 American Political Thought–Sp | 3 hours |
| History and Politics of the British Isles and Canada–Sp | | Survey and examination of the course of political thought in the American colonies and the United States from the 1600s to current times. Includes special attention to American founders and the rise of political liberalism in the thought of Woodrow Wilson. Crosslisted as POLS or HIST. <i>Prerequisites:</i> GSS-1100 <i>Politics and American Culture.</i> (even years) | |
| This course examines three countries: the United Kingdom, the Republic of Ireland, and Canada. After an extensive topical history along with a discussion of major prime ministers who served in the 19th and 20th Centuries, this course also investigates contemporary issues including foreign policy, recent political debates, secessionist problems in Scotland and Quebec, membership in the EU, and the ongoing structural changes to government. Crosslisted as GEO, HIST, and INTL. (odd years) | | | |
| POLS-3080 | 3 hours | POLS-3760 Jurisprudence: Philosophy of Law–Fa | 3 hours |
| History of Russia and Eastern Europe–Fa | | 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. <i>Prerequisite:</i> GSS-1100 <i>Politics and American Culture.</i> (even years) | |
| See course description for GEO-3080 History of Russia and Eastern Europe. (even years) | | | |
| POLS-3100 Public Budgeting–Fa | 3 hours | POLS-3790 Comparative Politics–Fa | 3 hours |
| See course description for PUAD-3100 Public Budgeting. (odd years) | | This course will familiarize students with major historical developments, political debates, and scholarly research in the subfield of comparative politics. Particular emphasis will be placed on topics of the modern state, nationalism, economic development, political culture and ideology, identity structure, regime types, regime transitions, and comparative political economy. Crosslisted as POLS or INTL. | |
| POLS-3200 History and Politics of Latin America–Fa | 3 hours | | |
| See course description for GEO-3200 History and Politics of Latin America. (odd years) | | | |
| POLS-3210 History and Politics of East Asia–Fa | 3 hours | POLS-4050 | 3 hours |
| See course description for GEO-3210 History and Politics of East Asia. (even years) | | Diplomacy of the Major Powers–Sp | |
| POLS-3220 | 3 hours | See course description for HIST-4050 Diplomacy of the Major Powers. Crosslisted as HIST, INTL, or POLS. | |
| History and Politics of the Middle East–Sp | | | |
| See course description for GEO-3220 History and Politics of the Middle East. | | POLS-4440 Special Topics: Political Science | 1–3 hours |
| POLS-3230 | 3 hours | Investigation of specific topics in Social Science and History that have intrinsic worth and engage student interest. | |
| History and Politics of Western Europe–Sp | | | |
| See course description for GEO-3230 History and Politics of Western Europe. (even years) | | POLS-4500 Seminar–Fa,Sp | 3 hours |
| POLS-3360 American Judicial System–Fa | 3 hours | This course exposes students to the literature in a political science field or subject in a seminar setting. The topic will vary by the professor's expertise, but will be in some area of American politics, international studies, or political thought. | |
| 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. <i>Prerequisite:</i> CRJU-1310 <i>Introduction to Criminal Justice.</i> | | | |
| POLS-3400 History of American Foreign Policy–Fa | 3 hours | POLS-4630 | 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. <i>Prerequisite:</i> GSS-1100 <i>Politics and American Culture.</i> (even years) | | American Constitutional Law: Civil Liberties and Rights–Sp | |
| POLS-3600 Public Administration–Fa | 3 hours | 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. <i>Prerequisites:</i> GSS-1100 <i>Politics and American Culture</i> | |
| See course description for PUAD-3600 Public Administration. | | | |
| POLS-3650 International Relations–Fa | 3 hours | POLS-4640 | 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. | | American Constitutional Law: Government Powers and Federalism–Fa | |
| POLS-3690 Public Policy–Sp | 3 hours | 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. <i>Prerequisite:</i> GSS-1100 <i>Politics and American Culture</i> (even years) | |
| See course description for PUAD-3690 Public Policy. | | | |
| <i>Prerequisite:</i> GSS-1100 <i>Politics and American Culture</i> | | POLS-4800 Seminar in International Studies–Fa | 3 hours |
| POLS-3710 | 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. | |
| 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. | | | |

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| POLS-4930 | 1–3 hours | Public Administration (PUAD) | |
| Independent Study in Political Science | | PUAD-3100 Public Budgeting –Fa | 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. <i>Prerequisite: Permission of the instructor.</i> | | 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) | |
| Prepharmacy (PPHR) | | PUAD-3390 Public Finance –Fa | 3 hours |
| PPHR-1011 | 1 hour | 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. <i>Prerequisite: ECON-2340 Macroeconomics.</i> (even years) | |
| Profession of Pharmacy—Introduction to Public Health –Sp | | PUAD-3600 Public Administration –Fa | 3 hours |
| 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. | | 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. | |
| PPHR-1012 | 1 hour | PUAD-3690 Public Policy –Sp | 3 hours |
| Profession of Pharmacy—History and Issues –Fa | | Focus on decision-making, problem solving, and methods of program analysis. Crosslisted as POLS or PUAD. <i>Prerequisite: GSS-1100 Politics and American Culture</i> | |
| The profession of pharmacy has a long history. It is 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. The course also discusses current issues in pharmacy including ethical research, drug development, introductory practice skills, foundational pharmacy calculations, legal issues, and innovation in pharmacy practice. (Fee: \$20) | | PUAD-4440 Special Topics: Public Administration | 1–3 hours |
| PPHR-2013 | 1 hour | Investigation of specific topics in Social Science and History that have intrinsic worth and engage student interest. | |
| Profession of Pharmacy—Careers I –Fa | | PUAD-4640 Strategies for Public Administration –Fa | 3 hours |
| The profession of pharmacy has experienced tremendous growth in recent history, both in terms of numbers in the profession as well as opportunities. In this course, the student will learn of many career options available to the pharmacist. Practicing pharmacists within different career paths facilitate discussions regarding their areas of expertise and field of practice. (Fee: \$50) | | 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) | |
| PPHR-2014 | 1 hour | PUAD-4800 Applied Public Administration –Sp | 3 hours |
| Profession of Pharmacy—Careers II –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) | |
| Focusing on careers different from those discussed in PPHR-2013, this course introduces the students to additional career options available to the pharmacist. Students will be exposed to current practicing pharmacists to gain a more personal perspective of pharmacy today. Practicing pharmacists within different career paths will facilitate discussions regarding their areas of expertise and field of practice. (Fee: \$50) | | PUAD-4970 | 1–3 hours |
| PPHR-3460 Advanced Physiology for Pharmacy –Sp | 3 hours | Independent Study in Public Administration | |
| This course will address the structure and function of major organ systems of the human body. Organ systems covered include muscular, nervous, endocrine/reproductive, cardiovascular, respiratory, digestive, and renal. <i>Prerequisites: GBIO-2010 Human Anatomy and Physiology I; GBIO-2015 Human Anatomy and Physiology II; or equivalent.</i> | | 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. <i>Prerequisite: Permission of the instructor.</i> | |
| PPHR-4280 | 2 hours | Professional Writing and Information Design (PWID) | |
| Introduction to Health Behaviors and Beliefs | | PWID-2130 Introduction to Professional Writing –Fa | 3 hours |
| This course provides an introduction to concepts of patient health behaviors and cultural health beliefs. In the first half of the semester, students will examine the theories explaining health behaviors and complete in-class activities utilizing the theory to influence health behavior change. In the second half of the semester, students will examine health beliefs in cultures around the world and the implications of these beliefs with regard to modern healthcare systems. | | Students will study the discipline and profession of professional writing. They will learn core skills that will help them succeed in the program and workplace. The class focuses on improving students' writing ability and allowing them to explore the job market in professional writing. | |
| PWID-3010 Style and Mechanics for Writers –Fa, Sp, Su | 3 hours | 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. <i>Prerequisite: ENG-1400 Composition.</i> | |
| PWID-3020 Professional Portfolio Development I –Fa | | 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. (Fee: \$50) | |

PWID-3050 Writing for the User Experience–Sp 3 hours

Students will learn to conduct formative and summative user research that will help them make critical decisions about content, structure, and layout of online publications, including websites, blogs, and magazines. They will study principles of usability, user experience, and information architecture in order to gain a comprehensive view of how to arrange, structure, and write content for online publications.

PWID-3090 Copywriting–Fa 3 hours

Students will learn to write for brands identifying the mission and values of organizations and writing to support them. The class explores how to create effective marketing materials through writing, editing, and designing copy and related graphics. *Prerequisite: PWID-3010 Style and Mechanics for Writers.*

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. (Fee: \$50)

PWID-3180 3 hours
Visual Rhetoric for Information Designers–Fa

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–Fa 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 Writing and Designing Documentation–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-3320 Editing in Publishing Contexts–Sp 3 hours

Students will learn to edit in publishing contexts. They will identify the purposes of manuscripts and practice editing to help authors accomplish their goals. Students will gain knowledge of publishing contexts and the various kinds of genres, styles, and documents they may edit for a publisher. *Prerequisites: PWID-3010 Style and Mechanics for Writers; PWID-3210 Professional Editing*

PWID-4010 Report Writing–Sp 3 hours

Students will learn to design and write effective technical reports and presentations that purposefully convey clear, concise, and accurate information to a targeted audience while using an appropriate level of technicality and supporting data or information.

PWID-4020 Professional Portfolio Development II–Fa 1 hour

Students will maintain a professional portfolio and learn to use it effectively to obtain employment after graduation. (Fee: \$50)

PWID-4050 Writing and Strategy for the Web–Fa 3 hours

Students will learn how to write effective web content and manage that content throughout its life cycle. They will engage with content strategy principles and study how to write for the interactive web.

PWID-4120 Writing for Industries–Sp 3 hours

Students will learn to write and design deliverables specific to a set of relevant industries. *Prerequisites: PWID-3210 Professional Editing; PWID-3250 Writing and Designing Documentation.*

PWID-4130 Instructional Design I–Fa 3 hours

Teaches technical communicators how to employ technology and learning theory in developing adult training courses.

PWID-4140 Instructional Design II–Sp 3 hours

This course provides students with the opportunity to delve deeper into the art and science of instructional design by focusing on educational technology in general and e-learning tools, techniques, and practices specifically in use in today's corporate environment. The course also investigates the topics of knowledge management, performance support and human capital management in order to give students a well-rounded introduction to the contemporary practice of non-traditional instructional design. *Prerequisites: PWID-4130 Instructional Design I or permission of instructor.*

PWID-4150 Writing for Publications–Sp 3 hours

Writing for Publications prepares students to manage a publication from conception until it is published. Students will develop an editorial strategy, write content, edit content from other writers, and manage the process until the document is published. Students will also explore how to market the publication. *Prerequisite: Senior status or permission of instructor.*

PWID-4160 Professional Writing Internship–Su 3 hours

Students will participate in a work-study program approved and administered by the department in which advanced Professional Writing and Information Design students receive a variety of job-related experiences in a communication environment. *Prerequisite: Permission of instructor.*

PWID-4170 Professional Writing Capstone–Sp 3 hours

The Professional Writing Capstone explores trends in the writing, editing, and design disciplines while also allowing students to bring together their skills and knowledge from throughout the program through various pedagogical means and assessments.

Prerequisites: PWID-2130 Introduction to Professional Writing; PWID-3010 Style and Mechanics for Writers Capstone course.

PWID-4230 1–3 hours
Independent Study in Professional Writing and Information Design–Fa, Sp, Su

Independent study for junior and senior-level PWID majors with special interests and demonstrated ability.

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.

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| PYCH-2600 Human Development: Life Span –Fa, Sp 3 hours | PYCH-3380 Health Psychology –Sp 3 hours |
| An analysis of the physiological, social, and psychological development of the individual from conception through the total life span. | 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-2610 Statistics –Fa, Sp, Su 3 hours | PYCH-3420 Human Sexuality –Sp 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) | 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. <i>Prerequisite: PYCH-1600 General Psychology or permission of instructor.</i> |
| PYCH-2640 Abnormal Psychology –Fa, Sp 3 hours | PYCH-3520 Counseling and Mentoring Women –Fa, Sp 3 hours |
| Focus upon etiology, symptomatology, and prognosis of psychological disturbance. <i>Prerequisite: PYCH-1600 General Psychology.</i> | 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-2650 Learning and Memory –Fa, Sp 3 hours | PYCH-3610 History and Systems of Psychology –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. <i>Prerequisite: PYCH-1600 General Psychology.</i> | Major trends in the development of psychology from its beginning to the present. Emphasis is placed upon contemporary theory. <i>Prerequisite: PYCH-1600 General Psychology or permission of instructor.</i> (Fee: \$10) |
| PYCH-2725 Child Development –Fa, Sp 2 hours | PYCH-3620 Psychology and Christianity –Fa, Sp 3 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. | Students will examine the historical and contemporary discussions that have surrounded the boundaries and interface of psychology and Christianity. |
| PYCH-2735 Child-Adolescent Development –Fa, Sp 3 hours | PYCH-3630 Testing and Measurement –Fa 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. | Emphasis on measurement theory and its applications, including concepts of validity, reliability, and test construction and selection. <i>Prerequisite: PYCH-2610 Statistics.</i> (Fee: \$20) |
| PYCH-2750 The Parent and the Child 3 hours | PYCH-3640 Industrial/Organizational Psychology –Sp 3 hours |
| Designed to explore the basic value requisites for effective family living. Basic concepts such as love, communication, and parental modeling will be stressed. | Psychology applied to the work world. Emphasis is on methodology and activities of industrial/organizational psychologists. <i>Prerequisite: PYCH-1600 General Psychology or permission of instructor.</i> |
| PYCH-2840 Concepts of Chemical Dependency –Fa 3 hours | PYCH-3660 Professional Counseling –Fa, Sp 3 hours |
| Available to all students. This course presents an overview of the social, economic, political, legal, spiritual, and ethical considerations concerning the use and abuse of alcohol and other drugs in our culture. A primary emphasis of the course includes application of a biblical perspective to assess use of various philosophies and perspectives on drugs and abuse. Treatment and prevention options for individuals and families will be discussed. Crosslisted as CRJU, PYCH, SOC, or SWK. | An introductory course emphasizing the underlying philosophies, current theories, and accepted procedures of counseling. <i>Prerequisite: PYCH-1600 General Psychology.</i> |
| PYCH-2850 Psychology of Adjustment 3 hours | PYCH-3670 Group Dynamics –Fa, Sp 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. | 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-3000 Addictions –Sp 3 hours | PYCH-3680 Counseling Couples and Families –Fa 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. | 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-3130 Intimate Relationships –Fa 3 hours | PYCH-3690 Social Psychology –Fa, Sp 3 hours |
| Explores friendship, love, and romance from historical, theoretical, and philosophical perspectives. <i>Prerequisite: PYCH-1600 General Psychology or permission of instructor.</i> | The study of the behavior of individuals as it is influenced by past and/or present interactions with social factors. <i>Prerequisite: PYCH-1600 General Psychology, or permission of instructor.</i> |
| PYCH-3700 Adolescent Development 3 hours | PYCH-3701 Counseling Adolescents –Sp 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. <i>Prerequisite: PYCH-1600 General Psychology, or permission of instructor.</i> |
| | This course introduces students to counseling interventions for helping adolescents who are struggling with common developmental and adjustment problems. <i>Prerequisite: PYCH-1600 General Psychology, or permission of instructor.</i> |

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| PYCH-3710 Adult Development and Aging–Fa | 3 hours | PYCH-4700 Counseling Children–Fa | 3 hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| The study of physical, psychological, social, and spiritual development and experience in the adult years. <i>Prerequisite: PYCH-1600 General Psychology, or permission of instructor.</i> | | 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-3720 Psychology of Personality–Fa, Sp | 3 hours | PYCH-4800 | 1–3 hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Contemporary theories of the development, organization, and dynamics of personality. (Fee: \$5) | | Seminar in Undergraduate Teaching–Fa, Sp, Su | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PYCH-3730 Research Methods–Fa, Sp | 3 hours | Students learn the fundamentals of college course preparation, instruction, management, tutoring, and assessment in 1000- and 2000-level courses. <i>Prerequisite: Permission of instructor.</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| An introduction to methods utilized in behavioral science research; emphasis upon experimental methodology and research design. <i>Prerequisite: PYCH-2610 Statistics or permission of instructor.</i> (Fee: \$5) | | PYCH-4850 | 1–3 hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PYCH-3740 Qualitative Research–Fa | 3 hours | Advanced Seminar in Teaching Apprenticeship–Fa, Sp, Su | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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. <i>Prerequisites: PYCH-1010 Writing in APA or permission of instructor.</i> | | Students learn the fundamentals of college course preparation, instruction, management, tutoring, and assessment in 3000- and 4000-level courses. <i>Prerequisite: Permission of instructor.</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PYCH-3750 Psychological Testing | 3 hours | PYCH-4950 Psychology Thesis–Fa, Sp | 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. <i>Prerequisite: PYCH-1600 General Psychology; PYCH-2610 Statistics or permission of instructor.</i> (Fee: \$20) | | 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-3760 Cognitive Neuroscience–Sp | 3 hours | PYCH-4960 Independent Study in Psychology | 1–3 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. <i>Prerequisites: PYCH-1600 General Psychology or permission of instructor.</i> | | Independent research carried out by the advanced psychology student in an area of interest and usefulness to the student. <i>Prerequisite: Permission of instructor.</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PYCH-3770 Experimental Design–Fa | 3 hours | PYCH-4990 Psychology Internship–Fa, Sp, Su | 1–9 hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A critical understanding of, and an empirical familiarity with the quantitative approaches used in psychology. An examination of methodology includes sampling and generalizability, measurement issues, data collection and analysis, non-experimental and experimental designs. <i>Prerequisite: PYCH-2610 Statistics.</i> | | 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. <i>Prerequisite: Permission of instructor.</i> (Fee: \$20) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PYCH-3900 Neurophysiological Psychology–Fa, Sp | 3 hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Explores the neurological, physiological, biological, and anatomical mechanisms responsible for behavior. <i>Prerequisite: PYCH-1600 General Psychology or permission of instructor.</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PYCH-3901 Medications and Behavior–Fa | 3 hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| An overview of the major categories of psychotropic medications. Emphasis is on general understanding of how these medications affect behavior, their mechanism of action, and common side effects. <i>Prerequisite: PYCH-1600 General Psychology or permission of instructor.</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PYCH-4400 Counseling Skills–Sp | 3 hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emphasis is on assisting individuals in ways of dealing with solving or transcending their problem situations. The methods and skills of helping others are investigated. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PYCH-4640 | 3 hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Psychology Comprehensive Review–Fa, Su | | Science Education (SCED) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Reports and discussions of research literature in psychology. Required of all psychology majors during their senior year. <i>Prerequisite: Permission of instructor.</i> (Fee: \$20) | | SCED-3120 Teaching Science–Fa | 3 hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PYCH-4650 Special Topics Seminar | 1–3 hours | Various topics to be offered as interest demands. Available to students with special interests in psychology. <i>Prerequisite: Permission of instructor.</i> (Fee: \$5) | | This course presents the professional knowledge, skills, methods, and instructional strategies required for teaching adolescent and young adult science, based on Ohio Educator Standards and NSTA science teacher preparation standards within the context of a biblical framework. Emphasis will be given to the facilitation of learning and innovation skills for adolescents and young adult students. <i>Prerequisite: Admission to the Teacher Education Program.</i> (Fee \$100) | | | | | | | | Sport Management (SMGT) | | | | 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. | | | | 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. | | | | SMGT-2910 | 1 hour | | | Campus Sport Business Management Practicum–Fa, Sp | | | | This practicum provides the sport business management major with the opportunity to assist faculty members or staff on the Cedarville University campus with their sport business management responsibilities for a required minimum of 40 hours total. <i>Prerequisite: Sophomore status or permission of the instructor.</i> | |
| Various topics to be offered as interest demands. Available to students with special interests in psychology. <i>Prerequisite: Permission of instructor.</i> (Fee: \$5) | | This course presents the professional knowledge, skills, methods, and instructional strategies required for teaching adolescent and young adult science, based on Ohio Educator Standards and NSTA science teacher preparation standards within the context of a biblical framework. Emphasis will be given to the facilitation of learning and innovation skills for adolescents and young adult students. <i>Prerequisite: Admission to the Teacher Education Program.</i> (Fee \$100) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | Sport Management (SMGT) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 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. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 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. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SMGT-2910 | 1 hour | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Campus Sport Business Management Practicum–Fa, Sp | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | This practicum provides the sport business management major with the opportunity to assist faculty members or staff on the Cedarville University campus with their sport business management responsibilities for a required minimum of 40 hours total. <i>Prerequisite: Sophomore status or permission of the instructor.</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| SMGT-2920 | 1 hour | SOC-2310 Juvenile Delinquency –Fa | 3 hours |
| Sport Business Management Practicum –Fa, Sp | | Study and assessment of casual theory and problems of correction and prevention of delinquency. Crosslisted as CRJU or SOC. (Fee: \$30) | |
| This practicum provides the sport business management major with the opportunity to assist an off-campus sport business professional for a required minimum of 40 total hours. <i>Prerequisite: Sophomore status or permission of the instructor.</i> | | | |
| SMGT-3180 Legal Issues in the Sport Industry –Sp | 3 hours | SOC-2330 Introduction to Social Work –Fa, Sp | 3 hours |
| This course will focus on the three major areas of law that have a direct impact on the management of sport: tort liability and risk management, contract law, and constitutional law. <i>Prerequisite: Junior status.</i> | | See course description for SWK-2330 Introduction to Social Work. | |
| SMGT-3200 Facility Design and Management –Fa | 3 hours | SOC-2400 Marriage and the Family –Fa, Sp | 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. <i>Prerequisite: Junior status or permission of the instructor.</i> (Fee \$35) | | 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. | |
| SMGT-3300 Event Planning and Production –Sp | 3 hours | SOC-2840 Concepts of Chemical Dependency –Fa | 3 hours |
| This course includes the process of planning for and organizing an event in sport. Organizing a plan for an event would include financial planning, risk management, scheduling, facility use, communication, promotions, registration, etc. <i>Prerequisite: Junior status or permission of the instructor.</i> | | Available to all students. This course presents an overview of the social, economic, political, legal, spiritual, and ethical considerations concerning the use and abuse of alcohol and other drugs in our culture. A primary emphasis of the course includes application of a biblical perspective to assess use of various philosophies and perspectives on drugs and abuse. Treatment and prevention options for individuals and families will be discussed. Crosslisted as CRJU, PYCH, SOC, or SWK. | |
| SMGT-3880 Special Topics in Sport Management –Su | 1–3 hours | SOC-2900 Ethics in the Helping Professions –Sp | 3 hours |
| This course will be a means of exposing students to current issues and trends in the sport industry. | | This course is designed to introduce the student to current issues and ethical dilemmas confronting professional helpers. The course encourages development of critical thinking skills by looking at dilemmas from a multifaceted point of view keeping in mind the ramifications decisions have on practice, services, and clients. Students learn to address dilemmas by drawing upon Scripture, professional values, and ethical principles as presented in the National Association of Social Workers Code of Ethics, as well as codes of ethics from other helping professions. The importance of human rights, justice, and mercy are incorporated throughout the course content. Crosslisted as SOC or SWK. | |
| SMGT-4100 Sponsorship and Promotion in the Sport Industry –Fa | 3 hours | SOC-3330 Social Stratification –Fa | 3 hours |
| 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.. <i>Prerequisite: Senior status or permission of the instructor.</i> (Fee: \$65) | | Study of the class structure and its implications for American society. <i>Prerequisite: SOC-1300 Introduction to Sociology.</i> | |
| SMGT-4200 Financing Sport Operations –Fa | 3 hours | SOC-3340 Sociology of Religion –Fa | 3 hours |
| This course provides the student with an overview of the financial aspects of the sport industry. | | The relationship of religion to society with particular reference to contemporary movements. (even years) | |
| SMGT-4850 Independent Study in Sport Management –Fa, Sp | 1–3 hours | SOC-3420 Human Sexuality | 2 hours |
| Independent study in the area of sport management by students pursuing the sport management major. <i>Departmental approval is required.</i> | | 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. <i>Prerequisite: PYCH-1600 General Psychology or permission of instructor.</i> | |
| SMGT-4910 Athletic Administration Practicum –Fa, Sp | 1 hour | SOC-3710 Family and Society –Sp | 3 hours |
| 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. <i>Prerequisites: SMGT-3200 Facility Design and Management; SMGT-3300 Event Planning and Production.</i> | | 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. | |
| SMGT-4990 Internship in Sport Business Management –Fa, Sp | 6–12 hours | SOC-3730 Social Problems –Sp | 3 hours |
| This internship is an actual work experience in a sport management setting. Students must work a minimum of 40 hours per credit hour. Capstone course. <i>Departmental approval is required.</i> Credit/no credit. (Fee: \$35) | | 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. | |
| Sociology (SOC) | | | |
| SOC-1300 Introduction to Sociology –Fa, Sp | 3 hours | SOC-3750 Social Movements –Fa, Sp | 3 hours |
| Introduction to the concepts of sociology. The structure and processes of social life are studied. | | See course description for HIST-3750 Social Movements. | |
| SOC-2200 Criminology –Fa | 3 hours | SOC-4440 Special Topics: Sociology | 1–3 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. | | Investigation of specific topics in Social Science and History that have intrinsic worth and engage student interest. | |
| SOC-4720 Social Theory –Fa | 3 hours | SOC-4720 Social Theory –Fa | 3 hours |
| | | Historical review of major sociological theorists and a critical examination of their theories from a theistic perspective. | |

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| SOC-4800 Research in Sociology–Sp | 3 hours | SPAN-3500 | 3 hours |
| Senior research paper in which each student focuses upon an issue or topic within the discipline of sociology. (Fee: \$80) | | 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. This course does not count toward the Spanish major or minor. <i>Prerequisites: degree-seeking students only; sophomore, junior, or senior status only; LING-3100 Principles of Language Acquisition; permission of instructor or advisor.</i> (crosslisted with LING-3500) | |
| SOC-4910 | 1–3 hours | Methods of Teaching Foreign Language–Fa | |
| 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. <i>Prerequisite: Permission of the instructor.</i> | |
| SOC-4990 Sociology Internship–Fa, Sp, Su | 3–12 hours | SPAN-3610 Spanish Composition–Fa | 3 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. <i>Prerequisites: ANTH-1800 Cultural Anthropology, PYCH-1600 General Psychology, and SOC-1300 Introduction to Sociology</i> | | 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. <i>Prerequisite: SPAN-2720 Intermediate Spanish or permission of instructor.</i> | |
| Spanish (SPAN) | | SPAN-3620 Spanish Conversation–Fa | 3 hours |
| SPAN-1710 Elementary Spanish I–Fa | 4 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. <i>Prerequisite: SPAN-2720 Intermediate Spanish or permission of instructor.</i> | |
| Development of basic skills in reading, writing, speaking, and listening in Spanish to satisfy a broad variety of everyday, school, and work situations, along with an introduction to Hispanic cultures. | | SPAN-3640 Introduction to Hispanic Literature–Sp | 3 hours |
| SPAN-1720 Elementary Spanish II–Sp | 4 hours | An introduction to concepts and vocabulary related to literary analysis through the study of representative works in narrative, poetry, drama, and essay by Spanish and Latin American authors, with emphasis on contemporary authors. <i>Prerequisite: SPAN-2720 Intermediate Spanish or permission of instructor.</i> | |
| 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. <i>Prerequisite: SPAN-1710 Elementary Spanish I or Spanish placement test for Elementary Spanish II.</i> | | SPAN-3670 Introduction to Translation–Sp | 2 hours |
| SPAN-1740 Intensive Spanish–Su | 6 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. <i>Prerequisite: SPAN-3610 Spanish Composition; or SPAN-3620 Spanish Conversation.</i> (odd years) | |
| 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. <i>Prerequisites: minimum GPA 2.0, high school Spanish highly recommended.</i> | | SPAN-3680 History of Hispanics in the U.S.–Sp | 3 hours |
| SPAN-2710 Intermediate Spanish I–Fa | 4 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) | |
| Development of all four language skills through grammar review, composition, conversation, and readings in Spanish literature and culture. <i>Prerequisite: SPAN-1720 Elementary Spanish, instructor's approval, or placement by exam.</i> | | SPAN-3690 Hispanic Film–Sp | 3 hours |
| SPAN-2720 Intermediate Spanish II–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. <i>Prerequisites: SPAN-3640 Introduction to Hispanic Literature; permission of instructor.</i> (even years) | |
| Development of all four language skills through grammar review, composition, conversation, and readings in Spanish literature and culture. <i>Prerequisite: SPAN-2710 Intermediate Spanish I; instructors approval or placement by exam.</i> | | | |
| SPAN-2760 Spanish For Professionals–Sp | 3 hours | | |
| Development of practical Spanish vocabulary and conversational skills related to careers in education, criminal justice, social work, and healthcare professions. <i>Prerequisite: SPAN-2720 Intermediate Spanish or permission of instructor.</i> (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. | | | |



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| SPAN-4610 Advanced Spanish Grammar–Fa | 3 hours | SPAN-4770 | 1 hour |
| 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. <i>Prerequisite: Permission of instructor.</i> (even years) | | Spanish Clinical Experience for Health Care Personnel–Fa, Sp | |
| SPAN-4640 Research in Language and Culture–Fa | 3 hours | A practical experience in which students minoring in Spanish for Healthcare Personnel assist healthcare professionals in clinical settings as they interact with Latino patients or clients. <i>Prerequisite: SPAN-4760 Advanced Medical Spanish.</i> | |
| 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. <i>Prerequisite: Major or minor in Spanish; permission of instructor.</i> | | SPAN-4790 20th Century Spanish Theatre–Sp | 3 hours |
| SPAN-4650 | 3 hours | Selected reading and analysis of outstanding Peninsular theatre from Benavente, García Lorca, and other post-Civil War period dramatists. <i>Prerequisites: SPAN-3640 Introduction to Hispanic Literature; permission of instructor.</i> (even years) | |
| Civilization and Literature of Latin America I–Fa | | Social Studies Education (SSED) | |
| 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. <i>Prerequisite: SPAN-3640 Introduction to Hispanic Literature.</i> (odd years) | | SSED-3800 | 2 hours |
| SPAN-4670 | 3 hours | Teaching Social Studies: Adolescent to Young Adult–Fa | |
| Civilization and Literature of Latin America II–Sp | | An emphasis on the identification, examination, and implementation of the methods and materials that are appropriate for each teacher candidate's discipline area. <i>Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the Adolescent and Young Adult Principles of Teaching block or permission of the dean.</i> | |
| A survey of the history, culture, and literature of Latin America from the 19th century to the present. Emphasis will be on acquiring a greater awareness of current issues in Latin American society and understanding their contributing factors. Literary works will be studied for their literary significance within their socio-historical context. <i>Prerequisite: SPAN-3640 Introduction to Hispanic Literature.</i> (odd years) | | Social Work (SWK) | |
| SPAN-4680 | 2 hours | SWK-1100 Total Immersion Experience–Sp | 1 hour |
| Advanced Conversation and Composition–Sp | | This course is available to all students interested in the helping professions. It is primarily a course designed for social work students who will receive a pre-professional experience in social work. The student's participation will be in a social service agency, "shadowing" a social worker who has a degree in social work or who is licensed in social work. (Fee: \$60) | |
| Development of oral and written communication skills at the advanced level as well as expansion of vocabulary dealing with a variety of contemporary topics. <i>Prerequisite: SPAN-3610 Spanish Composition, SPAN-3620 Spanish Conversation, or permission of instructor.</i> (even years) | | SWK-2330 Introduction to Social Work–Fa, Sp | 3 hours |
| SPAN-4700 Independent Study in Spanish–Fa, Sp | 1–3 hours | Introduction to Social Work introduces the social work profession and a variety of fields of social work practice. It includes a study of the historical development of social work. Content will emphasize an overview of the biblical foundation for the social work profession. Crosslisted as SOC or SWK. (Fee: \$55) | |
| Independent and intensive study in a particular area of the Spanish language, literature, or culture for individual students who demonstrate special interests and ability. | | SWK-2350 Field Survey–Fa, Sp | 2 hours |
| SPAN-4740 Civilization and Literature of Spain I–Fa | 3 hours | Experiential learning through visitation and observation of social workers and intradisciplinary teams in agency settings. It also provides exposure to fields of social work practice, the role of social work, and the agency structure. There is a special emphasis on understanding a biblical view of the diverse populations social workers serve. A series of field trips will provide students with an understanding of agency structure, the role of a social worker in a variety of settings, generalist social work practice, the dynamics of giving and taking help, and how to establish a professional helping relationship. Does not count toward social science elective for general education. (Fee: \$40) | |
| 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. <i>Prerequisites: SPAN-3640 Introduction to Hispanic Literature; permission of instructor.</i> (even years) | | SWK-2500 Social Work with Aging Populations–Fa | 3 hours |
| SPAN-4750 Civilization and Literature of Spain II–Sp | 3 hours | This course is designed to complete the undergraduate program and thus equip the student for beginning professional social work practice with the elderly population. Focus is on knowledge of the issues related to aging, exposure to the different types of social work and agencies that service the elderly and the varied social work careers related to serving the aged. The course will examine aging, the role of caregiving, grief, death, and dying from a biblical worldview. | |
| 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. <i>Prerequisites: SPAN-3640 Introduction to Hispanic Literature.</i> (even years) | | SWK-2820 Social Work in Mental Health Settings–Sp | 3 hours |
| SPAN-4760 Advanced Medical Spanish–Sp | 2 hours | This course will provide an exposure to contemporary issues of social work practice in mental health settings, with an emphasis on a biblical worldview. This is a survey course and will critically examine the system of care and issues that currently exist for individuals, families, and communities in the field of mental health. | |
| Study of Spanish medical terminology and cross-cultural concepts essential for effective communication with Latino patients and their families in a variety of healthcare settings. <i>Prerequisite: SPAN-2760 Spanish for Professionals.</i> (odd years) | | | |

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| SWK-2840 | 3 hours | SWK-3430 Junior Seminar I–Fa | 1 hour |
| Concepts of Chemical Dependency–Fa | | and SWK-3440 Jr Field Experience I–Fa | 3 hours |
| Available to all students. This course presents an overview of the social, economic, political, legal, spiritual, and ethical considerations concerning the use and abuse of alcohol and other drugs in our culture. A primary emphasis of the course includes application of a biblical perspective to assess use of various philosophies and perspectives on drugs and abuse. Treatment and prevention options for individuals and families will be discussed. Crosslisted as CRJU, PYCH, SOC, or SWK. | | 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. <i>Prerequisite: admission to the social work program. Corequisite: It is recommended that SWK-3430 and SWK-3440 be taken concurrently.</i> (Fee: \$150) | |
| SWK-2900 Ethics in the Helping Professions–Sp | 3 hours | SWK-3450 Junior Seminar II–Sp | 1 hour |
| This course is designed to introduce the student to current issues and ethical dilemmas confronting professional helpers. The course encourages development of critical thinking skills by looking at dilemmas from a multifaceted point of view keeping in mind the ramifications decisions have on practice, services, and clients. Students learn to address dilemmas by drawing upon Scripture, professional values, and ethical principles as presented in the National Association of Social Workers Code of Ethics, as well as codes of ethics from other helping professions. The importance of human rights, justice, and mercy are incorporated throughout the course content. Crosslisted as SOC or SWK. | | and SWK-3460 Jr Field Experience II–Sp | 3 hours |
| SWK-3010 | 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. <i>Prerequisite: admission to the social work program. Corequisite: It is recommended that SWK-3450 and SWK-3460 be taken concurrently.</i> (Fee: \$150) | |
| Human Behavior and the Social Environment–Fa, Sp | | SWK-4210 | 3 hours |
| This course will provide a biblical assessment of social work theories to assist in understanding human behavior with families, groups, organizations, and communities. Emphasis will be placed on holistic human relationships that have the capacity to be influenced by biological, psychological, social, spiritual, and cultural dimensions. <i>Prerequisite: Admission to the social work program.</i> | | Social Work Practice with Diverse Populations–Fa | |
| SWK-3020 | 3 hours | This course provides instruction for students to acquire values, skills, and knowledge of generalist social work practice. Instruction emphasizes helping students develop cultural competence for practice with diverse groups. Privilege, anti-racism, equity, diversity, and inclusion are examined from a biblical worldview. <i>Prerequisite: Admission to the social work program.</i> (Fee: \$15) | |
| Generalist Social Work Practice with Groups–Fa, Sp | | SWK-4220 | 4 hours |
| This course provides students with the opportunity to develop an understanding of theories, methods, and skills in relation to generalist practice with social work groups. Students explore the use of groups as a modality throughout scripture. Students examine cultural values of individuals and the influence of those values on the group process. <i>Prerequisite: Admission to the program or permission of the instructor.</i> (Fee: \$45) | | Social Work Practice with Communities and Organizations–Sp | |
| SWK-3110 Social Welfare Programs and Policy–Fa, Sp | 3 hours | This course is designed for students to develop and demonstrate competency in social work practice in multiple macro settings. Instruction emphasizes use of generalist practice skills to examine anti-racism, diversity, equity, and inclusion in communities and organizations from a biblical worldview. Secular-humanist and biblical perspectives of justice are compared.. <i>Prerequisites: Admission to the social work program</i> (Fee: \$80) | |
| This course examines social welfare policies and programs in relation to their effects on specific populations in society. Social policy is crucial to the way social workers are called upon to advocate for their clients in diverse settings. This course challenges students to examine the role of various levels of governmental policy and our roles as believers in Christ. Students gain this perspective through evaluating and analyzing current social policies and the provision of services. The course considers questions of social choice and the underlying criteria for the funding and delivery of social services. Policy analysis will be a major focus. <i>Prerequisite: Admission to the social work program.</i> (Fee: \$35) | | SWK-4440 Special Topics: Social Work | 1–3 hours |
| SWK-3210 | 4 hours | Investigation of specific topics in Social Work that have intrinsic worth and engage student interest. | |
| Social Work Practice with Individuals and Families–Fa, Sp | | SWK-4510 Senior Seminar I–Fa | 2 hours |
| This 4-hour course is designed to introduce the student to social work practice from a generalist's perspective. This course will help the student integrate knowledge and theory with agency practice. Emphasis will be given to the basic principles and values of practice as well as the skill development essential to beginning social work relationships. The student should emerge with a foundation in the basic core of concepts, methodology, and values along with an ability to examine his/her own practice. The primary focus of this course is social work ethics, the worker/client relationship, and interviewing skills. <i>Prerequisites: Admission to the social work program.</i> | | 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. <i>Prerequisite: Admission to the social work program. Corequisite: It is recommended that SWK-4510 and SWK-4560 be taken concurrently.</i> (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 3 hours

This course is one of the two courses in the research sequence for undergraduate social work majors. It provides an introduction to the conceptual and quantitative tools used to describe and interpret data that informs social work practice. Students learn how to select, run, and interpret statistics applicable to social work practice, while critically evaluating the provisional nature of frequentist statistics from a biblical worldview. The course provides students an opportunity to acquire a foundation in personal computer skills through relevant examples of technology. Students will be able to recognize how statistics can be used to evaluate anti-racism, diversity, equity, and inclusion in practice through class discussions and relevant computer lab assignments. *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

This course provides basic knowledge about research methods as they apply to social work. Social work practice and research share common features and processes, as both are fundamentally problem-solving enterprises. Students learn to apply the basic concepts and principles presented within this course, while critically examining the concepts and principles from a biblical worldview. *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.*

Songwriting (SWMU)

SWMU-2100 Fundamentals of Songwriting–Fa 3 hours

This course will introduce fundamental components of songwriting. This class is designed to expose students to practical exploration of songwriting concepts such as lyric, melody, harmony, rhythm, and form structure. In this course, special emphasis will be placed on the topics of melody and poetic devices. *Prerequisite/Corequisite: THMU-1210 Music Theory I or THMU-1250 Contemporary Musicianship I.* (odd years)

SWMU-2500 Worship Songwriting–Sp 3 hours

This course will continue the development of skills related to songwriting. This class is designed to help the student hone practical techniques for crafting worship songs. Special emphasis will be placed on the topics of lyrics, theology, and application within a congregation. *Prerequisite: SWMU-2100 Fundamentals of Songwriting* (odd years)

SWMU-3100 Professional Aspects of Songwriting–Fa 3 hours

This course will continue the development of skills related to songwriting. It will discuss professional and legal aspects related to songwriting such as copyright, publishing, licensing, production and promotion. In an effort to offer exposure to the songwriting industry, additional outside hours and travel component may be required for this class. *Prerequisites: SWMU-2500 Worship Songwriting; corequisite: TYMU-2510 Introduction to Digital Music Production* (Fee:\$300)(even years)

SWMU-4900 Senior Songwriting Seminar–Sp 1 hour

This course is designed to be a culminating experience for songwriting minors. Students will record and produce a multi-song demo of original music written within the context of the songwriting minor. They will create a personal brand and professional social media presence and release the EP digitally. They will also present the music live in a "songwriters in the round" setting. *Prerequisites: SWMU-3100 Professional Aspects of Songwriting; corequisite: TYMU-2520 Music Production Techniques.* (Fee:\$100) (even years).

Music Theory (THMU)

THMU-1010 2 hours

Introduction to Music Theory and Aural Skills–Fa

An intensive study of the rudiments of music: notation, pitch, and rhythm. These elements will be explored with aural and written components. These credits may not be substituted for any other music course. (Fee: \$30)

THMU-1210 Music Theory I–Fa 3 hours

A foundational study of the essential building blocks of music including chord analysis, harmony, voice leading, and form.

Prerequisite: THMU-1010 Introduction to Theory or competency equivalency as shown by entrance examination. (Fee: \$30)

THMU-1220 Music Theory II–Sp 3 hours

A continuation of Theory I with an in-depth exploration of part-writing, seventh chords, and elementary chromaticism.

Prerequisite: THMU-1210 Music Theory I. (Fee: \$30)

THMU-1250 Contemporary Musicianship I–Sp 2 hours

This course is designed to help students understand the structure of contemporary music. The class will also continue to develop written and aural musicianship studied in Introduction to Music Theory and Aural Skills. *Prerequisites: THMU-1010 Introduction to Music Theory and Aural Skills.* (Fee: \$30)

THMU-1310 Aural Skills I–Fa 2 hours

Introduction to techniques of basic aural musicianship, including singing, recognizing, and dictating intervals and chords within the diatonic major and minor systems by "guide tone" numeric scale degree method. *Corequisite: THMU-1210 Music Theory I.*

THMU-1320 Aural Skills II–Sp 2 hours

A continuation of Aural Skills I with an in-depth exploration of melodic and harmonic dictation along with an introduction to the techniques of transcribing select popular music recordings by ear. *Prerequisite: THMU 1310 Aural Skills I.*

THMU-2140 Functional Keyboard Skills–Fa 1 hour

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

THMU-2210 Music Theory III–Fa 3 hours

Critical study and analysis of the chromatic harmony, counterpoint and formal structure of 18th century music. Creative work in traditional compositional forms.

THMU-2220 Music Theory IV–Sp 3 hours

Critical study and analysis of the chromatic harmony and formal structure of 19th-century music. Analytical study of 20th-century compositional techniques, including impressionistic, serial, neoclassical, and electronic practices: creative work in contemporary styles.

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| 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. <i>Prerequisite: THMU-1250 Contemporary Musicianship I.</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. <i>Prerequisite: THMU 2250 Contemporary Musicianship II.</i> (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. <i>Prerequisite: THMU-1320 Aural Skills II. Corequisite: THMU-2210 Music Theory III.</i> | | |
| 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. <i>Prerequisite: THMU-2310 Aural Skills III. Corequisite: THMU-2220 Music Theory IV.</i> | | |
| 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. <i>Prerequisites: THMU-2210 Music Theory III, THMU-2310 Aural Skills III, and permission of instructor.</i> (odd years) | | |
| 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. <i>Prerequisites: THMU-2210 Music Theory III, THMU-2310 Aural Skills III, and permission of instructor.</i> (odd years) | | |
| THMU-4100 Counterpoint–Sp | 3 hours | |
| A survey of polyphonic music from the 18th to the 21st centuries including the analysis and composition of species counterpoint examples, canon, a fugal exposition, and a modern composition. Students will especially focus upon contrapuntal techniques utilized in contemporary choral and instrumental music. <i>Prerequisite: THMU-2220 Music Theory IV or permission of instructor.</i> (odd years) | | |
| THMU-4110 Form and Analysis–Sp | 3 hours | |
| 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. <i>Prerequisites: THMU-2220 Music Theory IV; THMU-2320 Aural Skills IV.</i> (even years) | | |
| THMU-4130 Orchestration–Fa | 2 hours | |
| Designed to develop skills in scoring music for various instrumental groups. <i>Prerequisite: THMU-2220 Music Theory IV.</i> (Fee: \$30) (odd years) | | |

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| THMU-4140 Choral Arranging–Fa | 2 hours |
| Study of arranging for the choral medium. Includes principles of arranging for children, youth, and adult choirs. Special attention given to arranging for large and small choral ensembles with a variety of forms of accompaniment. <i>Prerequisite: THMU-2220 Music Theory IV or permission of instructor.</i> (Fee: \$30) (even years) | |
| THMU-4990 Independent Study in Theory/Composition | 1–3 hours |
| 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. | |
| 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-1300 Introduction to Technical Theatre–Fa | 3 hours |
| This course is designed to provide the student with an introductory overview of various aspects of technical theatre, including set construction, costume construction, lighting and sound operation, and production run crews. The student will be provided with opportunities to develop and explore their technical skills with many of the basic tools, principles, and practices of technical theatre. (Fee: \$50) | |
| THTR-1410 Introduction to Theatre–Fa | 3 hours |
| Study of the history and development of theatre. Dramatic literature is considered a reflection of man and culture during various periods, dealing with philosophy, religion, and sociopolitical thought. A brief look at acting skills is also offered. | |
| THTR-1430 Stage Movement–Sp | 3 hours |
| A practicum in theatrical stage movement for performance with intensive studio sessions, starting with a foundation of anatomically sound knowledge of Alexander technique. Physical expressiveness is developed through exploration of industry-standard approaches such as Elements, Laban effort/shape movement, and Yakim's social selves. Specific applications develop technique for age demonstration and safe stage combat. Appropriate for students in all performing arts. (odd years) | |
| THTR-1460 Theatre Participation–Fa, Sp | 0–1 hour |
| Theatre majors and minors must participate in one mainstage production during each required semester. Theatre majors must enroll each semester the student is a major. Theatre minors must enroll two semesters. Participation may include acting, stage managing, crew heading, crewing, dramaturgy, etc. Credit/no credit. | |
| THTR-1500 Introduction to Production Design–Sp | 3 hours |
| This course is designed to provide the student an overview of theatrical design and the process in which a designer follows in analysis, research, and design for costume, lighting, scenic, and sound design. <i>Prerequisite: THTR-1300 Introduction to Technical Theatre</i> (Fee:\$50) | |
| THTR-2130 Dramatic Literature–Sp | 3 hours |
| Study of the historical development of dramatic styles, theory, criticism, and construction. Can be applied to meet English or speech requirements, but not both. Crosslisted with LIT. (even years) | |



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| THTR-2200 Stage Management–Sp | 2 hours | THTR-3420 Theatre History I–Fa | 3 hours |
| The course presents the procedures and ethics established and practiced by professional stage managers. Students will put these skills into practice through multiple class projects and in the development of a prompt book. <i>Prerequisites: THTR-1300 Introduction to Technical Theatre; THTR-1410 Introduction to Theatre.</i> | | An analysis of performative modes of a given culture within a historical study, reinforcing appreciation of the past and strengthening the understanding of one's own culture as well as different cultures. General survey of theatre history from the pre-Greek era to the present. Focus will be on prevailing philosophical orientation, major dramatists, theatre architecture and staging practices, styles of performance, costume design, innovations, and development. (even years) | |
| THTR-2350 Directing I–Fa | 3 hours | THTR-3430 Theatre History II–Sp | 3 hours |
| Practical study of play directing methods, theories, and techniques applied through class projects. Students will direct scenes with complete artistic oversight, fulfilling every role and function of a director. This course is also helpful to education majors who will have to assist in educational theatre productions. | | Survey of staging practices and innovations from mid-17th century to present, with study of representative plays from each era. (even years) | |
| THTR-2430 Acting I–Fa | 3 hours | THTR-3460 Acting II–Sp | 3 hours |
| Study in the principle theories of realistic acting is balanced with practice in experiencing character creation. Principles of physical and emotional character development are explored. | | An advanced course that builds upon and expands the actor's repertoire. The course may cover theatre forms such as Western foundational styles, Early modern to Post-Modern as well as non-Western traditions and contemporary performance. (even years) | |
| THTR-2470 Makeup Design–Fa | 2 hours | THTR-3465 Performing Shakespeare–Sp | 3 hours |
| Designed to provide the student with both theoretical knowledge and practical skills for makeup design and execution for a theatrical production. Each student will develop this craft through individual projects and work on a mainstage production. (Fee: \$150) (odd years) | | This course will prepare students for performance of classical works with an emphasis on communicating Shakespearean text with clarity, understanding, and emotional honesty. Students' skill will be challenged through performance of comic scenes, tragic scenes, and monologues after thorough investigation of Shakespeare's rhetorical strategies and poetic form. (odd years) | |
| THTR-2510 The Arts and Social Change–Sp | 3 hours | THTR-3470 Dramaturgy–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) | | This course provides background in specialized theatre research for students interested in teaching theatre history, drama, dramatic literature, and directing productions at the secondary or college level. (odd years) | |
| THTR-3301 Technical Theatre Practicum: Costume–Fa | 3 hours | THTR-3501 Advanced Theatrical Design: Costume–Sp | 3 hours |
| This course is designed to provide the student with knowledge and experience in the area of technical theatre. This hands-on course may cover the areas of costume construction, costume crafts, scenic construction, scenic painting, prop construction, hanging and focusing of lighting instruments, etc., as pertaining to the mainstage productions. <i>Prerequisite: THTR-1300 Introduction to Technical Theatre.</i> | | This course is designed to provide the student with both theoretical knowledge and practical skills for designing costumes, lighting, scenery, or sound for a theatrical production. The student will develop this craft through individual projects that cover topics such as rendering techniques, drawing and painting techniques, working with a director's concept, budgeting, presentation, and collaboration. <i>Prerequisites: ART-1100 Introduction to Art; THTR-1300 Introduction to Technical Theatre; THTR-1500 Introduction to Production Design.</i> (Fee: \$70) | |
| THTR-3302 Technical Theatre Practicum: Lighting–Fa | 3 hours | THTR-3502 Advanced Theatrical Design: Lighting–Sp | 3 hours |
| This course is designed to provide the student with knowledge and experience in the area of technical theatre. This hands-on course may cover the areas of costume construction, costume crafts, scenic construction, scenic painting, prop construction, hanging and focusing of lighting instruments, etc., as pertaining to the mainstage productions. <i>Prerequisite: THTR-1300 Introduction to Technical Theatre.</i> | | This course is designed to provide the student with both theoretical knowledge and practical skills for designing costumes, lighting, scenery, or sound for a theatrical production. The student will develop this craft through individual projects that cover topics such as rendering techniques, drawing and painting techniques, working with a director's concept, budgeting, presentation, and collaboration. <i>Prerequisites: ART-1100 Introduction to Art; THTR-1300 Introduction to Technical Theatre, THTR-1500 Introduction to Production Design.</i> (Fee: \$70) | |
| THTR-3303 Technical Theatre Practicum: Scenic–Fa | 3 hours | THTR-3503 Advanced Theatrical Design: Scenic–Sp | 3 hours |
| This course is designed to provide the student with knowledge and experience in the area of technical theatre. This hands-on course may cover the areas of costume construction, costume crafts, scenic construction, scenic painting, prop construction, hanging and focusing of lighting instruments, etc., as pertaining to the mainstage productions. <i>Prerequisite: THTR-1300 Introduction to Technical Theatre.</i> | | This course is designed to provide the student with both theoretical knowledge and practical skills for designing costumes, lighting, scenery, or sound for a theatrical production. The student will develop this craft through individual projects that cover topics such as rendering techniques, drawing and painting techniques, working with a director's concept, budgeting, presentation, and collaboration. <i>Prerequisites: ART-1100 Introduction to Art; THTR-1300 Introduction to Technical Theatre, THTR-1500 Introduction to Production Design.</i> (Fee: \$70) | |
| THTR-3304 Technical Theatre Practicum: Sound–Fa | 3 hours | | |
| This course is designed to provide the student with knowledge and experience in the area of technical theatre. This hands-on course may cover the areas of costume construction, costume crafts, scenic construction, scenic painting, prop construction, hanging and focusing of lighting instruments, etc., as pertaining to the mainstage productions. <i>Prerequisite: THTR-1300 Introduction to Technical Theatre.</i> | | | |

THTR-3504 Advanced Theatrical Design: Sound–Sp 3 hours

This course is designed to provide the student with both theoretical knowledge and practical skills for designing costumes, lighting, scenery, or sound for a theatrical production. The student will develop this craft through individual projects that cover topics such as rendering techniques, drawing and painting techniques, working with a director's concept, budgeting, presentation, and collaboration. *Prerequisites: ART-1100 Introduction to Art; THTR-1300 Introduction to Technical Theatre, THTR-1500 Introduction to Production Design.* (Fee: \$70)

THTR-3510 Directing II–Sp 3 hours

An advanced course exploring the direction of period plays and stylistic genres other than realism. Student projects might include one-act or full-length plays. Students will become familiar with influential contemporary directors and directing theories. (odd years) *Prerequisite: THTR-2350 Directing I.*

THTR-3530 Musical Theatre Techniques–Sp 3 hours

This course offers technique instruction in dance, voice, and acting styles for musical theatre. As a performance course, students will learn core dance technique starting with ballet and moving through various applicable styles, as well as basic vocal skills and acting technique necessary for musical theatre styles. Students will mark their progress toward a mastery of each unit through multiple classroom performances. Enrollment open to any student interested in musical theatre performance. (even years) (Fee: \$75)

THTR-3540 Period Styles for Production–Sp 3 hours

A general survey of Western art, architecture, and fashion for the stage from Pre-Grecian to Late 20th Century. This course provides an overview of the evolution of art, architecture, and fashion as well as the social and cultural history affecting those evolutions. (even years) (Fee: \$50)

THTR-3610 Theatre for Young People–Fa 3 hours

Designed to prepare college students to work with young people in the arts, this course trains students to use theatrical games/activities/productions with children between the ages of preschool through 12th grade. Useful skills are demonstrated to properly direct children in the classroom, on the stage, and in ministry-based settings such as preschools, camps, and on the mission field. Special focus is placed on childhood development as a means to create/identify/adapt theatrical material and apply it appropriately in various settings. Recommended for theatre/education/missiology students who plan to work with young children in educational, professional, and ministry settings. (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 administration and arts law, with significant research and presentation responsibilities for students. An overview of issues involved in the operation of arts organizations. (even years) (Fee: \$75)

THTR-4230 Stage Combat–Sp 3 hours

This course is an interactive study in theatrical stage combat with intensive studio training in unarmed (hand-to-hand) techniques. Emphasis is placed on safe, accurate, and convincing combat training with practical application in dramatic scene study. The course content will follow the policies/procedures dictated by the Society of American Fight Directors (SAFD). The course begins by building a strong foundation in unarmed skills and may advance to include an introduction of various stage weapons as appropriate for the students' skill-levels. (even years) (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-4430 Acting III–Sp 3 hours

Through various acting techniques, the actor will utilize in-depth research, interpretation, and script analysis to create complex characters. Course work may also explore emotionally-charged scenes to develop a methodology for sustaining demanding roles over long performance runs. When appropriate, students may also use their work from a production as content to apply the skills, techniques, and knowledge acquired in class. (odd years) *Prerequisites: THTR-2430 Acting I; THTR-3460 Acting II.*

THTR-4630 The Christian in Theatre–Sp 2 hours

Students discuss issues they will face in the culture-shaping world of stage and screen. A biblical view of the arts sets the foundation for examining work ethic and professional practice. Service-learning projects integrate faith and art in the local community.

THTR-4640 Special Topics–Fa, Sp 1–3 hours

Topics of specialized theatrical interest are examined on an as-needed basis. Repeatable up to six credit hours.

THTR-4750 Independent Study: Theatre–Fa, Sp 1–3 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) will culminate students' work in the form of a project that presents their highest caliber of work and that prepares students to achieve personal and professional goals. STP requirements can be fulfilled through performance, directed production, co-directed performance, theatre design, or dramaturgical study. Students begin shaping the STP immediately upon enrollment in the major and will work with an assigned project advisor. Capstone course.

THTR-4850 Theatre Capstone Internship–Fa, Sp, Su 3 hours

The capstone internship has two goals: to culminate the student's work at Cedarville through professional work experience representing the student's highest caliber of work and to prepare the student to achieve personal and professional goals. This experience meets the capstone requirement as an alternative from the STP capstone course.



| Music Technology (TYMU) | | 3 hours | 3 hours |
|--|--|----------------|---|
| TYMU-2510 | Introduction to Digital Music Production–Fa | | |
| | This course is a survey of music technology tools and techniques including an introduction to the digital audio workstation, digital audio editing, MIDI editing and programming, and virtual instruments. <i>Prerequisites: THMU-1010 Introduction to Music Theory and Aural Skills or successful completion of the Music Theory Entrance Exam; or permission of the instructor.</i> (Fee: \$45) (even years) | | |
| TYMU-2520 | Music Production Techniques–Sp | 3 hours | |
| | This course focuses on laptop recording and editing, giving students skills necessary to record and mix their own arrangements and compositions. Students will use a guerrilla recording approach to create singles and albums. <i>Prerequisites: TYMU-2510 Introduction to Digital Music Production; or permission of the instructor.</i> (Fee: \$45) (even years) | | |
| TYMU-3510 | Electronic Music Production–Fa | 3 hours | |
| | Students will learn music production techniques related to electronic and ambient genres. Using appropriate synthesizer sound design, sampling, MIDI programming, and mixing techniques, students will produce several original projects in modern electronic genres. <i>Prerequisites: TYMU-2520 Music Production Techniques; or permission of the instructor.</i> (Fee: \$45) (odd years) | | |
| TYMU-3520 | Scoring for Digital Media–Sp | 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. <i>Prerequisites: TYMU-3510 Electronic Music Production or permission of the instructor.</i> (Fee: \$45) (odd years) | | |
| Visual Communication Design (VCD) | | | |
| VCD-1050 | Applied Design: Tech Tools I–Fa, Sp | 3 hours | |
| | Students learn fundamental, industry-standard and processes and design technologies-Adobe Illustrator, InDesign, and Photoshop-as they apply principles of visual communication design to both print and screen contexts. (Fee: \$35) | | |
| VCD-1200 | Design Thinking–Sp | 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-2050 | Applied Design: Tech Tools II–Sp | 3 hours | |
| | Building on a foundation of technical tools, students will learn advanced technical skills, complex processes, and creative exploration as they apply principles of visual communication design to relevant, practical, and complex design problems and contexts. <i>Prerequisite: VCD-1050 Applied Design: Tech Tools I</i> (Fee: \$35) | | |
| | | | VCD-2200 Typography–Fa |
| | | | 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. <i>Prerequisites: ART-1230 Two-Dimensional Design; VCD-1050 applied Design: Tech Tools I; or permission of instructor.</i> (Fee: \$50) |
| | | | VCD-2400 Graphic Design I–Sp |
| | | | 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. <i>Prerequisites: VCD-2200 Typography; or permission of instructor.</i> (Fee: \$50) |
| | | | VCD-2600 Web Design I–Fa, Sp |
| | | | Students learn foundational concepts and skills for building usable and beautiful user-centered websites by exploring the differences between graphic design and interactive design, gaining experience with designing webpage layouts, and practicing the skills necessary for constructing and publishing web pages with HTML and CSS. (Fee: \$10) |
| | | | 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 resumé and portfolio along with written communication for documenting their education, experience, and technical skills. Students are recommended to have completed or be concurrently taking VCD-2400 Graphic Design I to have adequate material for their portfolio. (Fee: \$145) |
| | | | VCD-3300 Production Design I–Fa |
| | | | 3 hours |
| | | | An introduction to the technical processes required for the production of graphic design solutions in a variety of media. The course will provide opportunities to gain understanding of guidelines and requirements necessary for producing design documents in both conventional and electronic media. <i>Prerequisites: VCD-1050 Applied Design: Tech Tools I; Students are recommended to have completed VCD-2400 Graphic Design I.</i> GD majors and minors only. (Fee: \$50) |
| | | | VCD-3400 Graphic Design II–Fa |
| | | | 3 hours |
| | | | An in-depth study of graphic design and its role in creating visual communication. Coursework will examine methods of conducting and interpreting research, the development of 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. <i>Prerequisites: VCD-2400 Graphic Design I; or permission of the instructor.</i> GD majors and minors only. (Fee: \$50) |

VCD-3600 Web Design II–Sp

3 hours

Students will learn advanced concepts and techniques in web design including visual design, navigation, usability, grid layout, scripting, coding, and other skills necessary to produce professional, visually enhanced media for delivery via the web. Students will use industry standards, including software, to develop websites and digital media that integrate motion, sound, and interactivity to add value and enhance the user experience for web-based advertising, marketing, and other communication needs. *Prerequisites: VCD-2600 Web Design I.* (Fee: \$60)

VCD-3650 Scripting for Interactivity–Fa

3 hours

Students are introduced to the disciplines of interaction design and front-end development and learn how to use current technologies and best practices to apply principles of interaction to achieve simple, user-centered, interactive effects on real-world projects. *Prerequisite: VCD-3600 Web Design II.* (Fee: \$50)

VCD-3700 User Experience and Interface Design–Fa

3 hours

Students will study the principles of user experience and interface design, including processes, research methods, and concept testing. They apply principles through conceptualizing, testing and prototyping real-world projects for websites, web applications, mobile applications, gaming consoles, and other emerging technologies. *Prerequisites: VCD-2400 Graphic Design I; or permission of the instructor.* (Fee: \$35)

VCD-4200 Portfolio II–Fa

1 hour

This course will focus on revising a portfolio package that demonstrates to prospective employers professional-level knowledge and abilities within a particular area of specialization. Additionally, students will develop professional written, verbal, and non verbal communication skills that will guide the transition from academia to the design industry. *Prerequisites: VCD-3200 Portfolio I and senior status; or permission of instructor.*

VCD-4300 Production Design II–Sp

3 hours

An in-depth study of production methods and practices for application to 2-dimensional and 3-dimensional design concepts. *Prerequisites: VCD-2400 Graphic Design I; VCD-3300 Production Design I; or permission of the instructor.* (Fee: \$70)

VCD-4400 Graphic Design Capstone–Sp

3 hours

Students will complete a capstone project that combines skills from previous classes. Students will research, plan, conceptualize, prototype and implement a graphic design project - utilizing human-centered design research to develop a design strategy that informs targeted final solutions. Students will develop each phase of the project into a comprehensive project presentation. *Prerequisites: VCD-3300 Production Design I; VCD-3400 Graphic Design II; or permission of the instructor.* (Fee: \$50)

VCD-4600 Web Design III–Fa

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-3650 Scripting for Interactivity; VCD-3700 User Experience and Interface Design; VCD-4600 Web Design III.* (Fee: \$50).

VCD-4800

1–3 hours

Special Topics in Visual Communication–Fa, Sp

This course will examine a topic of specialized interest within the field of visual communication design. Rotation of course content will be determined by faculty schedules and student interest. Actual contact hours would determine the amount of credit granted. *Prerequisites: Topic dependent and by permission of the instructor.* (Fee: \$50)

VCD-4900

0–6 hours

Visual Communication Design Internship–Fa, Sp, Su

The graphic design internship will give the student an opportunity to gain actual on-the-job experience with professionals in the graphic design industry. This opportunity will allow students to gain insight into the professional practices and approaches to solving communication challenges for a variety of business models and client types. This experience will become a valuable asset in competing for an entry-level position upon graduation. CR/NC course.

VCD-4990 Independent Study in Design–Fa, Sp, Su

1–3 hours

This course allows a student independent and intensive study in a particular area of specialized interest beyond regular course offerings. The student must apply with a proposal and schedule to be approved in advance by the faculty mentor. Repeatable up to 6 credit hours. *Prerequisite: approval of proposal by faculty mentor.*

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.*



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Financial Information

University Financial Operation Policy

The University keeps the application fee, tuition, housing, food, 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)..... | \$17,939 |
| Under block rate per credit (1–11.5 credits)..... | \$1,358 |
| Block overload rate per credit (17.5 credits and above)..... | \$928 |
| Pharmacy courses (PPHR) tuition per semester credit..... | \$1,242 |
| <i>Tuition — Dual Enrollment</i> | |
| Per semester credit..... | \$185 |

| | |
|---------------------------------------|----------|
| ICC Block Tuition | \$19,602 |
| ICC over block (17.5 & above)..... | \$928 |
| ICC under block (1–11.5 credits)..... | \$1,485 |

Audit tuition

| | |
|---|----------------------|
| Within block | no additional charge |
| Under block or over block rate per credit | \$548 |
| Test-out fee per course..... | \$548 |

Fees

| | |
|---|-------|
| Application fee | \$30 |
| Food per semester | |
| 21-Meal Plan – fall/spring..... | 2,055 |
| 14-Meal Plan – fall/spring..... | 1,895 |
| 10-Meal Plan – fall/spring..... | 1,357 |
| Car registration fee - annual | 100 |
| Drop/add (course) fee | 5 |
| Graduation fee | 100 |
| Late payment fee | .25 |
| Late registration | 50 |
| Non returned/Late/Lost room key | .75 |
| New student fee | |
| Commuting student – fall semester..... | 90 |
| Commuting student – spring semester | 70 |
| Resident student – fall semester..... | 120 |
| Resident student – spring semester | 80 |
| Nursing Program fee per semester | 125 |
| Online course technology fee per credit | 35 |
| Returned item fee (NSF)..... | 20 |
| *Reservation deposit for new and transfer students | 250 |
| Housing fall/spring per semester-standard rate | 2,465 |
| Townhouse rate per semester | 3,527 |
| Student fee per semester | |
| Full-time students..... | 100 |
| Part-time students..... | 50 |
| Students taking 5 credits or less AND distance learners | 0 |
| Transcript fee | 12.50 |

*refundable upon withdrawal

For other dorm rates see Residence Life

Summary of Costs — Undergraduate

Institutional Costs

Estimated basic costs for the academic year of 2023–24 (excluding transportation, personal expenses, books, and laboratory fees):

| | |
|---|-----------------|
| Tuition (based on an average of 32 semester hours)..... | \$35,878 |
| Food (Weighted average) (meal plan) | 4,110 |
| Housing | 4,984 |
| Student fee | 200 |
| Total Estimated Costs | \$44,972 |

Miscellaneous Costs

Other yearly expenses may be estimated as follows:

| | |
|---|---------|
| Books and supplies | \$1,516 |
| Personal expenses (including clothing, recreation, and personal items) Note: laundry included with room | 2,152 |
| Transportation (based on area of residency) | various |

Financial aid may be available to help defray costs. See the Financial Aid section of this catalog for additional information concerning available funds and application procedures.

Financial Registration Policy

To enable the University to be responsible in meeting its financial responsibilities, students must make provision for the payment of their bill on the due dates established by the University each semester. A student's registration for courses indicates a commitment to pay for related charges as stated in the University catalog.

The following payment plan schedule was established to help students care for this responsibility:

| | Fall 2023 | Spring 2024 |
|---------------------|---------------|---------------|
| First Payment Due: | Aug. 4, 2023 | Jan. 4, 2024 |
| Second Payment Due: | Sept. 1, 2023 | Feb. 1, 2024 |
| Third Payment Due: | Oct. 1, 2023 | March 1, 2024 |
| Fourth Payment Due: | Nov. 1, 2023 | April 1, 2024 |

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.

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 ACH/EFT eCheck online through our new MyCU portal. For your protection, please do not mail cash.

Please send payments made payable to:

Attn: Cashiers Office
Cedarville University
251 N. Main Street
Cedarville, OH 45314

*Please remember to include your student ID# and student name on all checks. For online payments, please visit the student finance SelfService portal—"make a payment".

For more information on payment options, visit the Cashiers Office website at cedarville.edu/cashiers.

Notification of the University Bill

Students who preregister will receive a billing notice based on their preregistration schedule 20 to 30 days before the semester begins. Students are responsible for making their payments by the due dates. Monthly notices are sent via email to the student's Cedarville University email. The student can request the invoice/statement be sent to additional email accounts. Paper invoices/statements can also be requested for a \$3/month fee. You may view your student account history at any time by going to the student SelfService portal and selecting "View your statement."

Invoices and Statements Online

Students may view their student account activity, and most recent transactions online using SelfService. Students may also assign their parents a password, giving them access to their student account activity. Parents can view this information by logging onto SelfService through their own Internet service provider.

Payment Penalties

Students who fail to make acceptable payment arrangements within a reasonable period of time will be denied access to the dining hall and library until such arrangements are made. Students who do not make payments by the stated due dates will be charged \$25. Students with unpaid balances at the end of the semester may be denied grade reports, transcripts, diploma, or enrollment in the next semester. Students with past due accounts will also be responsible for any fees incurred in the collection of their past due account.

Cedarville University in accordance with the Veterans Benefits and Transition Act of 2018 will not impose any penalty, including the assessment of late fees, the denial of access to classes, libraries or other institutional facilities, or the requirement that a Chapter 31 or Chapter 33 recipient borrow additional funds to cover the individual's inability to meet his or her financial obligations to the institution due to the delayed disbursement of a payment by the U.S. Department of Veteran Affairs. This policy is limited to tuition funds paid by the U.S. Department of Veteran Affairs.

Interest Rates

An annual interest rate of 5 percent daily simple interest, will be charged during the academic year on accounts of current students. An annual interest rate of 5 percent (will be charged during the academic year on accounts of students no longer enrolled and on all student accounts during the summer months. (May–July)



New Student Reservation Deposit Refund

A reservation deposit must be submitted by new students as an indication of the intention to enroll. The amount of the deposit is \$250. This money will be credited to the student's deposit account. A student must have a reservation deposit in order to be registered for courses.

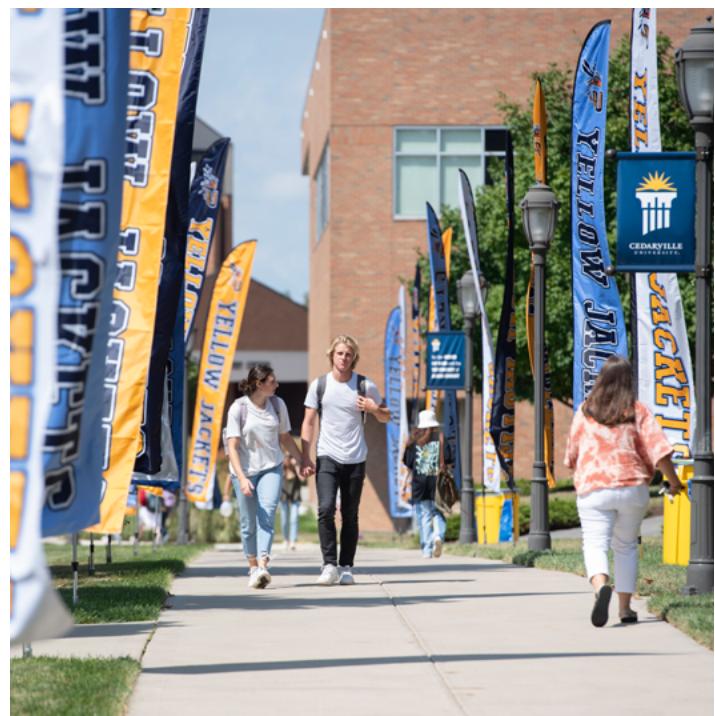
The reservation deposit is fully refundable if the request for refund is received in writing before the reservation deposit deadline. No refunds are available after the deposit deadline date.

Reservation deposit deadlines are as follows:

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

Continuing Student Reservation Deposit Refund

Full (100 percent) refunds will be made to continuing students who notify the University by June 1 of their intent to withdraw. If a continuing student notifies the University between June 2 and July 1 of their intention not to return fall semester, \$250 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

| | Withdraw from University | Withdraw from Class |
|------------------------------------|-----------------------------|------------------------|
| 14–16-Week Class | | |
| Week* class begins | 100% | 100% |
| Week* 1 (first full week) | 75% | 75% |
| Week* 2 | 50% | 0% |
| Week* 3 | 25% | 0% |
| 12-Week Class | | |
| 2 weekdays** from start of class | 100% | 100% |
| 6 weekdays** from start of class | 75% | 75% |
| 10 weekdays** from start of class | 50% | 0% |
| 14 weekdays** from start of class | 25% | 0% |
| 8-Week Class | | |
| 2 weekdays** from start of class | 100% | 100% |
| 4 weekdays** from start of class | 75% | 75% |
| 7 weekdays** from start of class | 50% | 0% |
| 9 weekdays** from start of class | 25% | 0% |
| 4-Week Class | | |
| 1 weekday** from start of class | 100% | 100% |
| 2 weekdays** from start of class | 75% | 75% |
| 3 weekdays** from start of class | 50% | 0% |
| 5 weekdays** from start of class | 25% | 0% |
| For classes 3 weeks or less | | |
| 2 weekdays** from start of class | 100% | 100% |
| 3 weekdays** from start of class | 0% | 0% |
| All other Classes | | |
| 4% from start of class | 100% | 100% |
| 10% from start of class | 75% | 75% |
| 17% from start of class | 50% | 0% |
| 23% from start of class | 25% | 0% |

*A week ends at the close of business (5:00 p.m.) on Friday.

**A weekday is defined as Monday through Friday. A day ends at 5 p.m., Eastern Standard Time.



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.

Food/Meal Plan

Meal charges will be refunded on a prorated weekly basis. Meal weeks begin on Sunday and end on Saturday. Meal refunds are computed based on the last day of residency. Meal contracts are required for all students living in the residence halls. Students may choose from five available meal-plan options.

Housing

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 medical physician. Room rent will then be refunded on a prorated basis.

Other Fees

No other fees are refundable except for withdrawal within the first calendar week of the semester.

Federal 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). 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 hours
- 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.

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 officially or unofficially 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 an 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.

Unofficial withdrawals are reviewed at the end of each semester to determine if student has "earned" their financial aid for the term. A financial aid recipient who did not receive any passing grades for the term is considered an "unofficial withdrawal." Pending information received from the Registrar's office, Cedarville will use either the established date of last academic activity for a student or administratively use the 50% midpoint of the term to determine the amount of earned federal aid.

In accordance with federal regulations, when financial aid is involved, return of T-IV funds are allocated in the following order:

1. Unsubsidized Federal Direct Loan
2. Subsidized Federal Direct Loan
3. Federal Direct Parent PLUS Loan
4. Federal Pell Grant
5. Iraq and Afghanistan Service Grant
6. Federal Supplemental Educational Opportunity Grant (FSEOG)
7. Federal TEACH Grant

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 allow the student 14 days to respond to the written notification. 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.
- Post-withdrawal disbursements will be applied to the student's account. If the disbursement results in an over-payment on the account, a refund will be issued to the student. Eligible post-withdrawal refunds will be issued as soon as possible, but no later than 45 days after the date of the University's determination that the student withdrew.
- When a student withdraws with an outstanding Title IV balance, the University must first complete the Return of Title IV calculation, and make any required adjustments to the Title IV credit balance. Then the adjusted amount of any remaining Title IV credit balance should be refunded to the student within 14 days.
- 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

- When a Return to Title IV calculation is made and a determination has been made that a student is ineligible for a specific amount of federal Title IV aid, a student may both owe funds directly to the federal Title IV program, as well as a balance to the institution.
- Official withdrawal information is found in the online catalog (page 30).

Special Provisions for Books and Supplies

Federal regulations (34 CFR 668.164(i)) dictate that if an undergraduate student has a T-IV credit balance on their account

10 days prior to the semester, they are able to use their credit balance amount to obtain their books and supplies through the 7th day of the payment period. The school may use the actual costs of books and supplies or allowance for those materials used in estimating the student's cost of attendance for the period.

A student may opt out of the book voucher by simply not utilizing the established process in place. If a student does opt out, your T-IV credit balance will be issued to you through the normal process.

In addition, Cedarville University allows all undergraduate students to receive a voucher for books and supplies. There is a \$1,000 cap on the limit. If a student has an invoice above this amount, on a case-by-case basis, with Cashier authorization, the limit may be increased. The timeframe to use the voucher is from the first week of August through the first week of September.

Veterans Training Benefits and Dependents Educational Assistance

Cedarville University is approved under Title 38, Chapters 30, 31, 32, 33, 35, and 1606, U.S. Code for education of Veterans and their dependents.

Students under Chapters 30, 32, 35, and 1606 are required to pay the school for all charges. The Veterans Administration in turn pays them a monthly allowance based upon their training load. Veterans under Chapter 31 are paid a monthly allowance and the Veterans Administration pays the school for tuition, fees, books, and supplies.

Cedarville University participates in the Veterans Administration Yellow Ribbon Program. Those students eligible to receive Chapter 33 Post-9/11 benefits at the 100% benefit level may qualify to receive benefits through the Veterans Administration Yellow Ribbon Program.

Inquiries concerning eligibility should be directed to a Veterans Administration Regional Office or by calling (888) 442-4551. Students planning to study under one of the education laws should receive approval prior to enrolling. A Veterans Administration training officer will contact the University on behalf of students with disabilities to facilitate this requirement for the student.

Cedarville University students eligible for Veterans benefits should contact the Office of the Registrar.

For Veterans Administration reporting purposes only, adjusted load calculations will apply for undergraduate students taking less than 12 credits in an accelerated session.

Cedarville University, in accordance with the Veterans Benefits and Transition Act of 2018, will not impose any penalty, including the assessment of late fees, the denial of access to classes, libraries or other institutional facilities, or the requirement that a Chapter 31 or Chapter 33 recipient borrow additional funds to cover the individual's inability to meet his or her financial obligations to the institution due to the delayed disbursement of a payment by the U.S. Department of Veteran Affairs. This policy is limited to tuition funds paid by the U.S. Department of Veteran Affairs.



Deferred Payment Plan for Veterans

For Option Deferred Payment Plan for Veterans (under Chapters 30, 31, 32, 33, and 35) receiving the Educational Assistance Allowances, consult the Office of the Registrar.

Payments by veterans receiving their Educational Assistance Allowance checks one month behind will be as follows:

| | |
|------------------|---|
| Fall Semester: | 1st payment by 10/4 2nd payment by 11/1 3rd payment by 12/1 Final payment by 1/1 |
| Spring Semester: | 1st payment by 2/4 2nd payment by 3/1 3rd payment by 4/1 Final payment by 5/1 |

A late payment charge of \$25 is applicable for accounts unpaid after the payment due date.

Veterans receive eight monthly VA checks that must pay for eight deferred payments on the semester system.

Military Tuition Assistance — Army, Air Force, National Guard

Military members who are serving on active duty, in the National Guard, or in the Reserves may be eligible for military tuition assistance. Military Tuition Assistance is a form of financial aid which may be used to assist with the cost of your coursework.

Please review your eligibility for this benefit with your military unit or installation. Approval for tuition assistance benefits should be obtained prior to enrolling for classes for the term from the appropriate education service officer, military counselor and/or military unit.

To apply for tuition assistance:

- Complete appropriate application per military branch/education office instructions. Contact your military education office to get started.
- When your TA is approved, please communicate with Cedarville's Cashiers office (cashier@cedarville.edu) to complete the process.
- If you are eligible for Tuition Assistance Top-UP, please contact the VA Certifying Official at Cedarville at the Registrar's office (registrar@cedarville.edu).



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). An analysis of the family's financial data is performed and the results are used to determine the eligibility for need-based assistance. For filing online, obtain an FSA ID for **both** the parent and student and complete the FAFSA at fafsa.gov.

In addition to *need-based aid*, the University also offers *merit-based aid* to students who demonstrate recognized achievement or talent. Merit scholarship categories include academic, leadership, athletic, music, forensics, theatre, and debate.

The financial aid homepage has direct links to several scholarship databases. Students are encouraged to investigate privately-funded scholarships through the use of the Internet and accessing cedarville.edu/finaid.

Students should advise Financial Aid when they receive additional assistance from sources other than Cedarville University. This assistance will be considered when preparing award packages and may result in the revision of a previously prepared package.

A financial aid award notification will be provided to students after reviewing completed application data and after a student is accepted for admission to Cedarville University. Financial aid is applied for and awarded on a yearly basis. Aid applicants must continue to meet program qualifications in order to retain eligibility.

All questions may be directed to Financial Aid at 937-766-7866. Visit Cedarville's financial aid website at cedarville.edu/finaid and the FAFSA website at fafsa.gov.



Institutional Scholarships and Grants

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 additional information, review our full array of scholarships, renewal criteria, and terms and conditions, see cedarville.edu/scholarships.

Transfer Student Aid

For complete information see cedarville.edu/TransferAid.

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

Scholarship Funds

Cedarville University seeks to be a careful steward of institutional resources and ensure that scholarship funds are maximized for all students. Therefore, if a student receives total scholarships and grants (institutional or outside) that exceed his/her direct University charges, Cedarville will reduce that student's institutional gift-based aid so that the total gift-based aid does not exceed the student's University charges.

State Grant Programs

For complete information about all the Ohio student aid programs visit the Ohio Department of Higher Education website at ohiohighered.org.

Ohio College Opportunity Grant

Ohio residents who are high need students may be eligible for the Ohio College Opportunity Grant. The FAFSA filing deadline is October 1. Full details about the Ohio College Opportunity Grant (OCOG) may be found at ohiohighered.org/ocog.

Ohio National Guard Scholarship Program

The Ohio National Guard Scholarship Program (ONGSP) is a tuition only program for all members of the Ohio Army and Air National Guard that have enlisted for a minimum of three years and up to six years who are in good standing with their unit. The ONGSP will pay 100% tuition at all state funded public colleges and will pay 100% of the state average tuition of the public schools at private colleges that participate in the ONGSP. If a Soldier or Airman enlists, for three to five years they will receive 48 semester hours towards their degree and if they enlist for a full six-year enlistment, they will receive 96 semester hours toward their degree. Contact the Ohio National Guard (1-800-GO-GUARD) or Ohio Air Guard (1-800-TO-GO-ANG) for additional details about requirements, obligations, and benefits.

Ohio War Orphan & Severely Disabled Veterans' Children Scholarship

This scholarship is awarded to students who are children of deceased or disabled veterans. The student must be enrolled full-time and be meeting appropriate cumulative GPA requirements. For more information, review ohiohighered.org/ohio-war-orphans.

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 full funding. Students withdrawing or dropping below full-time status during the semester may have their grant payments adjusted according to grant refund policy. Questions pertaining to refund policy should be directed to Financial Aid.

Other State Grants

Students from the following states may be eligible for state grant programs. Contact your state's higher education authority for eligibility criteria. The first step in applying for a state grant is to complete the FAFSA.

- Pennsylvania – 1-800-692-7392
- Vermont – 1-800-642-3177
- Delaware – 1-800-292-7935

Federal Grants

Federal Pell Grant

This grant is awarded to students demonstrating the greatest financial need according to a federal eligibility formula. To be eligible, you must be an undergraduate student working toward your first bachelor's degree. Award amounts typically change each academic year and range depending upon financial need, as determined by a federal formula, and are prorated based on hours enrolled as of census date. The Student Aid Report (SAR) sent to students from the U.S. Department of Education will provide details about your eligibility and Pell award amount. Award amounts are subject to change based on your enrollment status and changes to your FAFSA.

Federal Pell Grant Enrollment and Eligibility Requirements

In order to maintain eligibility for the Federal Pell Grant, students must participate in enrolled courses. If a student drops, withdraws from, or fails a course, those courses will be reviewed for participation in academically related activities. If we are not able to document participation, the the Federal Pell Grant will be subject to a reduction based on course enrollment in which the student participated.

Federal Supplemental Educational Opportunity Grant (FSEOG)

This need-based federal grant is awarded to students who demonstrate the greatest financial need. To be eligible, you must complete the FAFSA, be determined to be Pell eligible (see above), and FSEOG awards are first offered to students with the greatest need. FSEOG is federal campus-based funding, funding is limited for this program, and early completion of the FAFSA is strongly recommended.

More information about the Federal Supplemental Educational Opportunity Grant (FSEOG) may be found at studentaid.gov/understand-aid/types/grants/fseog.

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 ROTC 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 a monthly stipend 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 Cedarville Admissions at 937-766-7700.

Air Force ROTC Scholarships

Air Force ROTC scholarships are available, paying for the cost of tuition, fees, and textbooks, plus a monthly stipend 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 Cedarville Admissions at 937-766-7700.

Donor-Funded Scholarships

Through the generosity of alumni, faculty, staff, and friends, more than 300 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 general scholarship application to be considered for these awards. The department of financial aid or committees from academic and University departments typically select the recipients. The general scholarship application may be found online at: cedarville.academicworks.com.

The personal connection between donors and the students they support plays a significant role in the continued funding of these scholarships. Recipients are asked to express their thanks to their donors in the following ways:

- Send a timely letter of appreciation to your donors.
- Attend the Honors Day reception in April (*if applicable*).
- Attend the scholarship reception and Legacy Banquet on Homecoming weekend.

Federal Direct Loans

Federal Subsidized and Unsubsidized Loans

Federal Direct 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/finaid.

In addition, if a student is enrolled for less than a full academic year immediately preceding graduation, the annual loan limit must 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. Department of Education, who serves as the lender, generally deducts origination fees that are determined annually.

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. 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

Campus jobs are available in most departments around campus. Students should review employment opportunities and the hiring process on the student employment website (cedarville.edu/studentemployment)

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

All degree-seeking students (both federal Title IV and non-Title IV recipients) will be evaluated for federal Satisfactory Academic Progress (SAP) standards to be eligible in future terms for federal Title IV financial assistance. This policy treats all undergraduate students the same regardless of program of study, full-time enrollment, or part-time enrollment, etc. 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/SAP_UG for complete information related to Satisfactory Academic Progress.



Student Rights

1. You have the right to know what financial aid programs are available at your school.
2. You have the right to know the deadlines for submitting applications for each of the financial aid programs available.
3. You have the right to know how financial aid will be distributed, how decisions on that distribution are made, and the basis for these decisions.
4. You have the right to know how your financial need was determined. This includes how costs for tuition and fees, housing and food, travel, books and supplies, personal and miscellaneous expenses, etc., are considered in your budget.
5. You have the right to know what resources (such as parental contribution, other financial aid, your assets, etc.) were considered in the calculation of your need.
6. You have the right to know how much of your financial need as determined by the institution has been met.
7. You have the right to request an explanation of the various programs in your student aid package.
8. You have the right to know your school's refund policy.

Student Responsibilities

1. You must complete all application forms accurately and submit them on time to the right place.
2. You must provide correct information. In most instances, misreporting information on financial aid application forms is a violation of law and may be considered a criminal offense that could result in indictment under the U.S. Criminal Code.
3. You must return all additional documentation, verification, corrections, and/or new information requested by either 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.
5. You must accept responsibility for all agreements that you sign.
6. You must perform the work agreed upon in accepting a University employment award.
7. You must be aware of and comply with the deadlines for application or reapplication for aid.
8. You should be aware of your school's refund procedures.

All schools must provide information to prospective students about the school's programs and performance. You should consider this information carefully before deciding to attend a school.





Appendix

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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

*Robert Winalda (2024), Chair
 Daniel Petek, (2024), Vice Chairman
 Corey Abney (2026), Secretary
 Timothy Knight (2025), Treasurer*

Term of Office Ending June 2024

*David Dykema, Rockford, Michigan
 Evan English, Tipp City, Ohio
 Connie Jenkins, Paoli, Indiana
 Nathan Lino, Humble, Texas
 Daniel Petek, Medina, Ohio
 Joel Wayne, Hudsonville, Michigan
 Brian White, Noblesville, Indiana
 Jeffory Willets, Bellefontaine, Ohio
 Robert Winalda, Comstock Park, Michigan*

Term of Office Ending June 2025

*William Bernhard, Menomonee Falls, Wisconsin
 David Carr, Biloxi, Mississippi
 Paul Davis, New Cumberland, Pennsylvania
 Jason Duesing, Kansas City, Missouri
 Warren Jenkins, Purcellville, Virginia
 Timothy Knight, Fairlawn, Ohio
 Deforia Lane, Cleveland Heights, Ohio
 Don Lough, Jr., Schroon Lake, New York
 Dominic McKinley, Greensboro, North Carolina
 Jonathan Price, Columbus, Ohio*

Term of Office Ending June 2026

*Corey Abney, Brandon, Florida
 Kenneth David Bane, Richmond, Indiana
 Daniel Green, Lakeland, Florida
 James Hilton, Orange City, Florida
 Randy Patten, Noblesville, Indiana
 Hayes Wicker, Indian Land, South Carolina*

Emeriti

*William Bolthouse, Littleton, Colorado
 Jim DeVries, Ada, Michigan
 Joseph Godwin, Gallipolis, Ohio
 David Gower, Elgin, Illinois
 David Graham, Erlanger, Kentucky
 Roy Guenin, Winona Lake, Indiana
 E. L. Hawkins, Northfield, Ohio
 Ruth Kempton, Lititz, Pennsylvania
 David Lodwick, Bradenton, Florida
 Lorne Scharnberg, Des Moines, Iowa
 Al Stevens, Moorestown, New Jersey*

Administration

Cabinet

Thomas White, *President; Professor of Theology. Education: BA, Anderson University, 1997; MDiv, Southeastern Baptist Theological Seminary, 2001; PhD, Southeastern Baptist Theological Seminary, 2005. At Cedarville since 2013.*

Zachary Bowden, *Chief of Staff, Assistant Professor of Theological Studies. Education: BA, Texas A&M University-Corpus Christi, 2006; MDiv, Southwestern Baptist Theological Seminary, 2010; PhD, Southwestern Baptist Theological Seminary, 2016. At Cedarville since 2013.*

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Chancellor

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Other Faculty

Administrative Faculty

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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 2022

| Enrollment By Class | Men | Women | Totals | Science Comprehensive Education-Integrated | 2 | 4 | 6 |
|---|------------|--------------|---------------|---|----------|----------|----------|
| Freshmen | 538 | 578 | 1116 | Social Studies Education-Integrated | 15 | 10 | 25 |
| Sophomores | 385 | 483 | 868 | Social Work | 2 | 85 | 87 |
| Juniors | 371 | 470 | 841 | Social Work - 3 Yr Program | 0 | 6 | 6 |
| Seniors | 457 | 566 | 1023 | Spanish | 4 | 19 | 23 |
| Post-baccalaureate | 1 | 1 | 2 | Spanish Education-Multi-Age | 0 | 5 | 5 |
| Non-Degree: (ND / GR / HS) | 291 | 399 | 690 | Special Education-Intervention Specialist | 5 | 47 | 52 |
| Total Enrollment | 2,043 | 2,497 | 4,540 | Sport Business Management | 23 | 5 | 28 |
| Enrollment By Major (double majors are included) | | | | | | | |
| Majors | Men | Women | Totals | Sport Medicine | 13 | 18 | 31 |
| Accounting | 45 | 35 | 80 | Studio Art | 2 | 19 | 21 |
| Allied Health | 38 | 68 | 106 | Theatre | 3 | 18 | 21 |
| Bible Certificate | 1 | 1 | 2 | Undeclared/Degree Seeking | 28 | 35 | 63 |
| Biblical Studies | 32 | 39 | 71 | Undeclared/Non-Degree | 290 | 398 | 688 |
| Biblical Studies/Accelerated MDiv | 65 | 11 | 76 | Visual Communication Design | 25 | 51 | 76 |
| Biology - BA | 6 | 15 | 21 | Worship | 24 | 23 | 47 |
| Biology - BA - 3 Yr Program | 1 | 1 | 2 | Worship - 3 Yr Program | 2 | 4 | 6 |
| Biology - BS | 26 | 38 | 64 | Youth Ministries | 6 | 4 | 10 |
| Broadcasting, Digital Media, & Journalism | 46 | 33 | 79 | Student Resident Status | | | |
| Chemistry - BA | 4 | 7 | 11 | Men | Women | Totals | |
| Chemistry - BS | 6 | 11 | 17 | Campus housing | 1,428 | 1,722 | 3,150 |
| Chemistry Education | 0 | 0 | 0 | Commuters | 319 | 371 | 690 |
| Christian Education | 2 | 7 | 9 | Faculty/Enrollment Comparison (full-time equivalents) | | | |
| Civil Engineering | 67 | 15 | 82 | Student | Faculty | Ratio | |
| Communication | 13 | 53 | 66 | 2006–07 | 3,064 | 211 | 15:1 |
| Communication - 3 Yr Program | 3 | 5 | 8 | 2007–08 | 3,006 | 228 | 13:1 |
| Computer Engineering | 49 | 3 | 52 | 2008–09 | 2,996 | 202 | 15:1 |
| Computer Science | 136 | 22 | 158 | 2009–10 | 2,841 | 195 | 15:1 |
| Criminal Justice | 32 | 28 | 60 | 2010–11 | 2,938 | 202 | 15:1 |
| Cyber Operations | 43 | 5 | 48 | 2011–12 | 3,014 | 215 | 14:1 |
| Early Childhood Education | 0 | 1 | 1 | 2012–13 | 3,053 | 225 | 14:1 |
| Economics - BA | 3 | 2 | 5 | 2013–14 | 3,075 | 240 | 13:1 |
| Economics - BS | 18 | 6 | 24 | 2014–15 | 3,082 | 251 | 12:1 |
| Electrical Engineering | 47 | 12 | 59 | 2015–16 | 3,076 | 245 | 13:1 |
| English | 6 | 44 | 50 | 2016–17 | 3,083 | 241 | 13:1 |
| English - 3 Yr Program | 0 | 1 | 1 | 2017–18 | 3,185 | 226 | 14:1 |
| Environmental Science | 14 | 19 | 33 | 2018–19 | 3,759 | 229 | 16:1 |
| Exercise Science - BS | 15 | 30 | 45 | 2019–20 | 3,883 | 234 | 16:1 |
| Finance | 104 | 17 | 121 | 2020–21 | 4,028 | 229 | 17:1 |
| Finance-3 Yr Program | 9 | 5 | 14 | 2021–22 | 4,195 | 242 | 17:1 |
| Forensic Science | 7 | 23 | 30 | 2022–23 | 4,540 | 284 | 16:1 |
| Geology | 18 | 9 | 27 | | | | |
| Global Business | 6 | 7 | 13 | | | | |
| History | 16 | 11 | 27 | | | | |
| History - 3 Yr Program | 0 | 3 | 3 | | | | |
| Individual Studies | 0 | 0 | 0 | | | | |
| Industrial & Innovative Design | 56 | 35 | 91 | | | | |
| Information Systems/Info Tech Mgmt | 42 | 3 | 45 | | | | |
| Intercultural Studies - Missiology | 2 | 4 | 6 | | | | |
| International Studies | 9 | 14 | 23 | | | | |
| Language Arts Education-Integrated | 6 | 20 | 26 | | | | |
| Liberal Arts | 1 | 3 | 4 | | | | |
| Life Science Education | 1 | 3 | 4 | | | | |
| Linguistics | 5 | 35 | 40 | | | | |
| Management | 91 | 43 | 134 | | | | |
| Management-3 Yr Program | 2 | 4 | 6 | | | | |
| Marketing | 30 | 46 | 76 | | | | |
| Marketing-3 Yr Program | 3 | 1 | 4 | | | | |
| Mathematics - BA | 4 | 7 | 11 | | | | |
| Mathematics - BS | 13 | 6 | 19 | | | | |
| Mathematics Education-Integrated | 8 | 12 | 19 | | | | |
| Mechanical Engineering | 189 | 34 | 223 | | | | |
| Middle Childhood Education | 13 | 41 | 54 | | | | |
| Molecular Biology | 48 | 55 | 103 | | | | |
| Multi-Age Health and Physical Education | 4 | 3 | 7 | | | | |
| Music | 8 | 10 | 18 | | | | |
| Music - 3 Yr Program | 1 | 0 | 1 | | | | |
| Music Composition | 8 | 3 | 11 | | | | |
| Music Education-Multi-Age | 6 | 20 | 26 | | | | |
| Music - Keyboard Pedagogy | 2 | 12 | 14 | | | | |
| Music Performance | 5 | 11 | 16 | | | | |
| Nursing | 61 | 394 | 455 | | | | |
| Nursing - 3 Yr Program | 6 | 20 | 26 | | | | |
| Pharmaceutical Sciences | 12 | 24 | 36 | | | | |
| Pharmaceutical Sciences-3 Yr Program | 2 | 5 | 7 | | | | |
| Physical Science Education | 0 | 1 | 1 | | | | |
| Physics Education | 0 | 0 | 0 | | | | |
| Physics-BS | 15 | 3 | 18 | | | | |
| Political Science | 31 | 24 | 55 | | | | |
| Pre-Computer Science/Cyber Operations | 8 | 2 | 10 | | | | |
| Pre-Engineering | 23 | 1 | 24 | | | | |
| Prelaw | 3 | 7 | 10 | | | | |
| Pre-Nursing | 1 | 2 | 3 | | | | |
| Primary (P–5) Education | 7 | 149 | 156 | | | | |
| Professional Writing & Information Design | 5 | 28 | 33 | | | | |
| Psychology | 41 | 151 | 192 | | | | |
| Psychology - 3 Yr Program | 5 | 14 | 19 | | | | |



| Enrollment By State | Men | Women | Totals |
|--------------------------|--------------|--------------|--------------|
| Alabama | 2 | 7 | 9 |
| Alaska | 15 | 13 | 28 |
| Arizona | 3 | 3 | 6 |
| Arkansas | 2 | 3 | 5 |
| California | 22 | 25 | 47 |
| Colorado | 26 | 34 | 60 |
| Connecticut | 16 | 15 | 31 |
| Delaware | 7 | 5 | 12 |
| Florida | 31 | 31 | 62 |
| Georgia | 13 | 16 | 29 |
| Hawaii | 2 | 0 | 2 |
| Idaho | 0 | 3 | 3 |
| Illinois | 91 | 95 | 186 |
| Indiana | 129 | 189 | 318 |
| Iowa | 21 | 24 | 45 |
| Kansas | 15 | 12 | 27 |
| Kentucky | 59 | 74 | 133 |
| Louisiana | 0 | 3 | 3 |
| Maine | 8 | 18 | 26 |
| Maryland | 33 | 42 | 75 |
| Massachusetts | 17 | 16 | 33 |
| Michigan | 160 | 198 | 358 |
| Minnesota | 28 | 32 | 60 |
| Mississippi | 1 | 0 | 1 |
| Missouri | 23 | 19 | 42 |
| Montana | 2 | 2 | 4 |
| Nebraska | 7 | 6 | 13 |
| Nevada | 1 | 4 | 5 |
| New Hampshire | 16 | 19 | 35 |
| New Jersey | 30 | 34 | 64 |
| New Mexico | 1 | 2 | 3 |
| New York | 67 | 60 | 127 |
| North Carolina | 31 | 23 | 54 |
| North Dakota | 1 | 3 | 4 |
| Ohio | 836 | 1062 | 1898 |
| Oklahoma | 2 | 5 | 7 |
| Oregon | 11 | 12 | 23 |
| Pennsylvania | 105 | 147 | 252 |
| Rhode Island | 1 | 1 | 2 |
| South Carolina | 5 | 9 | 14 |
| South Dakota | 4 | 1 | 5 |
| Tennessee | 21 | 30 | 51 |
| Texas | 15 | 14 | 29 |
| Utah | 1 | 5 | 6 |
| Vermont | 4 | 3 | 7 |
| Virginia | 42 | 40 | 82 |
| Washington | 11 | 20 | 31 |
| West Virginia | 12 | 19 | 31 |
| Wisconsin | 40 | 44 | 84 |
| Wyoming | 0 | 1 | 1 |
| District of Columbia | 0 | 0 | 0 |
| Guam | 0 | 0 | 0 |
| Puerto Rico | 0 | 0 | 0 |
| Foreign Residence | 53 | 54 | 107 |
| Total Enrollment: | 2,043 | 2,497 | 4,540 |
| Enrollment By Age | | | |
| Years | Men | Women | Totals |
| Under 18 | 282 | 411 | 693 |
| 18 | 442 | 548 | 990 |
| 19 | 437 | 507 | 944 |
| 20 | 337 | 482 | 819 |
| 21 | 342 | 394 | 736 |
| 22 | 132 | 100 | 232 |
| 23–24 | 51 | 37 | 88 |
| 25–29 | 12 | 5 | 17 |
| 30–34 | 2 | 3 | 5 |
| 35–39 | 1 | 2 | 3 |
| 40–49 | 1 | 4 | 5 |
| 50+ | 4 | 4 | 8 |
| Total Enrollment: | 2,043 | 2,497 | 4,540 |





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ACADEMIC CALENDAR

Fall Semester 2023

August 2023

| | |
|-------|---|
| 1–3 | New Faculty Orientation |
| 8–9 | Academic Leadership Group Meetings |
| 11 | Faculty/Staff Sessions and Service Awards Program |
| 14 | Academic Division Meeting |
| 15–16 | Department/School Retreats |
| 18–20 | Getting Started Weekend (meal contract starts at 5:00 p.m. on Friday) |
| 21–24 | Fall Bible Conference |
| 23 | Instruction begins at 8:00 a.m. |

September 2023

| | |
|---|------------------------|
| 4 | Labor Day (no classes) |
|---|------------------------|

October 2023

| | |
|-------|---|
| 4–5 | Trustee Meetings |
| 23–24 | Advising/Early Registration for Spring: Priority Registration |
| 25–26 | Advising/Early Registration for Spring: Seniors |
| 30–31 | Advising/Early Registration for Spring: Juniors |

November 2023

| | |
|----------|--|
| 1–3 | Advising/Early Registration for Spring: Sophomores |
| 14–16 | Advising/Early Registration for Spring: Freshmen |
| 28–12/11 | Student Evaluation of Faculty for Fall Semester |

December 2023

| | |
|-------|-------------------------|
| 12–15 | Final Exams* |
| 20 | Grades Due at 3:00 p.m. |

Spring Semester 2024

January 2024

| | |
|-------|---|
| 9 | New Student Orientation and Registration (meal contract starts at 5:00 p.m.) |
| 9 | Instruction Begins at 8:00 a.m. |
| 9–11 | Global Outreach (GO) Conference |
| 15 | Martin Luther King Jr. Day (no classes) |
| 25–26 | Trustee Meetings |

March 2024

| | |
|-------|---|
| 2–10 | Spring Break |
| 11 | Instruction Resumes at 8:00 a.m. |
| 18–19 | Advising/Early Registration for Fall: Priority Registration |
| 20–21 | Advising/Early Registration for Fall: Seniors |
| 22–25 | Advising/Early Registration for Fall: Juniors |
| 26–28 | Advising/Early Registration for Fall: Sophomores |
| 29–31 | Easter Break (no classes) |

April 2024

| | |
|-------|---|
| 1 | Instruction Resumes at 8:00 a.m. |
| 1–3 | Advising/Early Registration for Fall: Freshmen |
| 15–29 | Student Evaluation of Faculty for Spring Semester |
| 30 | Final Exams |

May 2024

| | |
|-----|---|
| 1–3 | Final Exams |
| 2–3 | Trustee Meetings |
| 4 | 128th Annual Commencement (residence halls close at 5:00 p.m. for undergraduates, 8:00 p.m. for walking seniors) |
| 8 | Grades due at 3:00 p.m. |

*Final exam schedules are published at the beginning of each semester. Please be sure that your travel arrangements do not conflict with your final exams.

Note – all dates are subject to change.

Summer Sessions 2024

May Session: May 7–May 24, 2024

June Session: June 10–June 21, 2024

July Session: July 15–July 26, 2024

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| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

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