

Fall 2015

# 2015-2016 Undergraduate Academic Catalog

Cedarville University

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**CEDARVILLE**  
UNIVERSITY®

2015-16 Undergraduate Academic Catalog



for the **WORD OF GOD** and the  
**TESTIMONY** of **JESUS CHRIST**

# ACADEMIC QUICK REFERENCE GUIDE

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## 2015–16 Academic Catalog

Home to 3,600 Christian students, Cedarville University is an accredited, Christ-centered, Baptist university of arts, sciences, professional, and graduate programs.

*Established in 1887*

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

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## A Word From Our President

During college you will form opinions and make decisions that impact the remainder of your life. I pray those decisions lead to a life that makes a difference for Jesus Christ.

As you read this catalog, I want you to know that a biblical worldview guides every course. Every professor teaches in accordance with our doctrinal statement, which makes Cedarville a place you can trust to build up your faith in every academic program. Furthermore, our Bible minor will equip you to understand the Bible and defend your theological beliefs.

I call our academic studies “scholarship on fire” because our professors embody academic excellence paired with conservative theology, set ablaze by Great Commission passion. This means that Cedarville will equip you with knowledge for a brighter future, virtues for a godly life, and a desire to impact eternity.

God is moving and Cedarville is experiencing exciting days. I hope you will come join us as we have fun while making a difference for the Word of God and the Testimony of Jesus Christ.

Until He comes,

A handwritten signature in cursive script that reads "Thomas White".

Thomas White, Ph.D.  
President, Cedarville University

## History

Cedarville College was established on January 26, 1887, through the vision of five godly men who dreamed of a college that would provide Christian students with an education that was offered within a spiritual framework. Affiliated with the Reformed Presbyterian Church, the College attracted many local students and built its first building, now known as “Founders Hall,” in 1895. Soon, Cedarville attracted a growing number of students and gained a reputation not only for its Bible teaching but also for its liberal arts program.

The turbulence of the first 50 years of the 20th century led to hard times for the College. After multiple attempts at revitalization, the trustees realized the school was no longer sustainable. The College would have to find another school with which to merge, another denomination to assume its operation, or close its doors.

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

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

Paul Dixon was then called to lead Cedarville College. Through his leadership, the College continued to flourish in every area, and by the end of his tenure in 2003, there were nearly 3,000 students, more than 100 programs of study, and many new facilities.

In April of 2000, the board of trustees voted to change the designation of the institution. Effective September 1, 2000, Cedarville College became Cedarville University.

William Brown took the helm of the institution in October 2003, poised to advance it forward into the next century. He did so

through an expressed focus on training students to effectively engage the culture around them by thinking critically and serving compassionately.

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

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

The future looks bright for Cedarville University as it seeks God’s continued blessing in this, its 127th year of service.

## Profile

Home to 3,600 Christian students, Cedarville University is an accredited, Christ-centered, Baptist university of arts, sciences, professional, and graduate programs located in southwest Ohio. Since its founding in 1887, Cedarville has maintained its commitment to biblical truth and academic excellence to equip students for academic success, professional leadership, and spiritual influence. This intentional focus has earned Cedarville a national reputation as a leader in the liberal arts, health sciences, and professional programs.

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

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

## Mission

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

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

### Glorify God

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

### Think Broadly and Deeply

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

### Communicate Effectively

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

### Develop Academically and Professionally

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

### Engage for Christ

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

## Accreditation, Authorization, and Licensure

Cedarville University is a four-year and graduate degree-granting institution chartered by the state of Ohio and authorized by the Ohio Board of Regents.

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

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

## Setting

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

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

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

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

## Computer Network

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

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

### Access

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

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

### Benefits

Students using the network can:

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

### Technology Advisory Council

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

*Mr. Alfred Anderson, Mayo Clinic*

*Ms. Cathy Balas, Wittenberg University*

*Mr. George Chessum, Presence Health*

*Mr. David Cossey, Union College*

*Mr. Greg Frye, Direct Options*

*Mr. Brian Gammon, Experis*

*Mr. Michael Gutman, Syllogistic*

*Mr. Steve Hangen, Independent IT Consultant*

*Mr. Bowe Hoy, Sword and Shield*

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

*Ms. Alice Kaltenmark, Reed Elsevier*

*Mr. Ed Krupka, Burris Information Technology*

*Mr. Fred Laxton, Executive Consultants*



*Mr. Jim Napier, Meggitt Training Systems*  
*Mr. Chris Pool, First Column Enterprises*  
*Mr. Clinton Rice, ProCare Physical Therapy*  
*Mr. David Sherry, Brown University*  
*Mr. Craig Terrell, Vanguard Solutions*  
*Dr. Michael Zastrocky, The Leadership Board of CIOs*

## University Student Services

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

### Career Services

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

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

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

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

#### Affiliations

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

#### Highlights

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

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

### Counseling Services

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

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

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

**Location:** SSC 163  
**Phone:** 937-766-7855  
**Web:** [cedarville.edu/counseling](http://cedarville.edu/counseling)  
**Email:** [jacobst@cedarville.edu](mailto:jacobst@cedarville.edu)

### Health Care and Medical Services

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

**Phone:** 937-766-7862  
**Fax:** 937-766-7865  
**Web:** [cedarville.edu/ums](http://cedarville.edu/ums)  
**Email:** [ums@cedarville.edu](mailto:ums@cedarville.edu)

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

### Housing

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

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

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

Married students may find housing at Cedar Park, a 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 and DirecTV service are provided.

### New Student Orientation

"Getting Started" takes place at the start of each semester, when new students are provided with opportunities designed to

facilitate adjustments to their new surroundings. The program includes orientation for parents. Special interest sessions, question and answer times, small group meetings, and social activities provide opportunities to adjust to a new environment. Placement testing may be required during orientation.

## Vehicles

There are no restrictions on vehicle registration; however, for academic reasons, freshmen are discouraged from bringing a vehicle their first semester. Please understand that parking is limited and upperclassmen are given priority. All vehicles parked on campus must be registered at [cedarville.edu/campusafety](http://cedarville.edu/campusafety).

## Ministry Opportunities

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

## Chapel

It has been said that the heartbeat of Cedarville University is the daily chapel service held in the 3,400-seat James T. Jeremiah Chapel. At 10 a.m. each morning, the auditorium comes alive as the University gathers to worship, pray, hear from God's Word, and contemplate relevant issues facing the body of Christ today. Chapel is a place for students to grow and connect as speakers inspire and challenge the University family. Many students participate in one of the many chapel bands that lead worship each day. Alumni often mention chapel as one of the things they miss most after graduation.

## Church Relations

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

- Pastor Appreciation Days — Several times each year a small group of pastors are invited to Cedarville and are honored and recognized for their ministry.
- Annual Conferences — Church Relations sponsors or supports Cedarville conferences designed to equip and strengthen local churches, such as the annual Pastors Conference, Worship 4:24, Bioethics Conference, and the Critical Concerns Series, addressing complex social issues of the day.
- Regional and National Conferences — Cedarville staff members represent the University to pastors and churches at a number of regional and national conferences.

## Discipleship Ministries

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

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

Fit to be Tied is another strategic ministry specifically targeting



seriously dating or engaged couples. Student couples meet regularly with their mentor couple throughout the school year as well as attending five relevant seminars focused on building Christ-honoring marriages.

## Global Outreach — Local

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

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

## Global Outreach — International

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

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

## HeartSong Ministries

HeartSong Ministries communicates the livable reality of the Gospel as seen through genuine worship. Whether at a large conference or small youth event, HeartSong intentionally balances music, Scripture, and life stories to engage audiences in a way that is distinctively Cedarville. Teams rehearse approximately six hours a week and travel a minimum of five weekends each

semester and 10 weeks during the summer. Auditions are held each year during the first week of school. HeartSong is excited to reach out to thousands of young people across the country and introduce them to the incredible opportunities available at Cedarville University.

## **OneVoice Gospel Choir**

OneVoice is an exciting volunteer choir and praise band that is open to all students. They meet each week for rehearsal and fellowship and sing regularly in chapel.

## **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](http://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 neighbors, 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](http://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 70
- Engineering Competitions – Engineering and Computer Science, page 89
- Forensics – Communication, page 70
- Math Club – Science and Mathematics, page 165
- Miriam Maddox Forum – Communication, page 70
- Student Radio Station – Communication, page 71
- Theatre – Art, Design, and Theatre, page 39

## **Music Groups**

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

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

Vocalists may sing with the Concert Chorale, Men's Glee Club, Women's Choir, Opera Ensemble, Jubilate Ministry Choir, OneVoice Gospel Choir, or one of the many small ensembles directed by Christian Ministries.

## **Intercollegiate Athletics**

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

Students interested in participating on an intercollegiate athletic



team or cheerleading should visit the Cedarville University Athletics website ([yellowjackets.cedarville.edu](http://yellowjackets.cedarville.edu)). Click the team sport you are interested in and fill out a prospective athlete questionnaire.

### Campus Recreation

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

### Student Life Programs

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

### Leadership Opportunities

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

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

### Organizations

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

### Academic Organizations

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

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

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

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

**Cedarville University Chemistry Club** provides opportunities through professional associations and alumni to become better 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.

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

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

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

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

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

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

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

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



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

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

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

### *Professional Organizations*

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

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

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

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

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

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

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

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

**National 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.

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

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

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

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

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

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

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

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

### *Honor Organizations*

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

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

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

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

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

### **Campus Community Organizations**

#### *Cross-Cultural Organizations*

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

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

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

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

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

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

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

**Students for Israel** seeks to provide students with a better and more accurate understanding of God's people Israel, both

past and present, and to provide ways for students and faculty to minister to Israel and its people.

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

### *Social/Service Organizations*

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

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

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

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

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

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

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

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

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

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

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

### *Special Interest Organizations*

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

### Departmental Organizations

**Cedarville University Emergency Medical Services (CUEMS)** is a volunteer ambulance service run entirely by students from Cedarville University. As an EMS provider, CUEMS responds to all medical and traumatic emergencies on the University campus, as well as being available to the surrounding community if needed. All members of CUEMS are state-certified emergency medical technicians 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 1965.

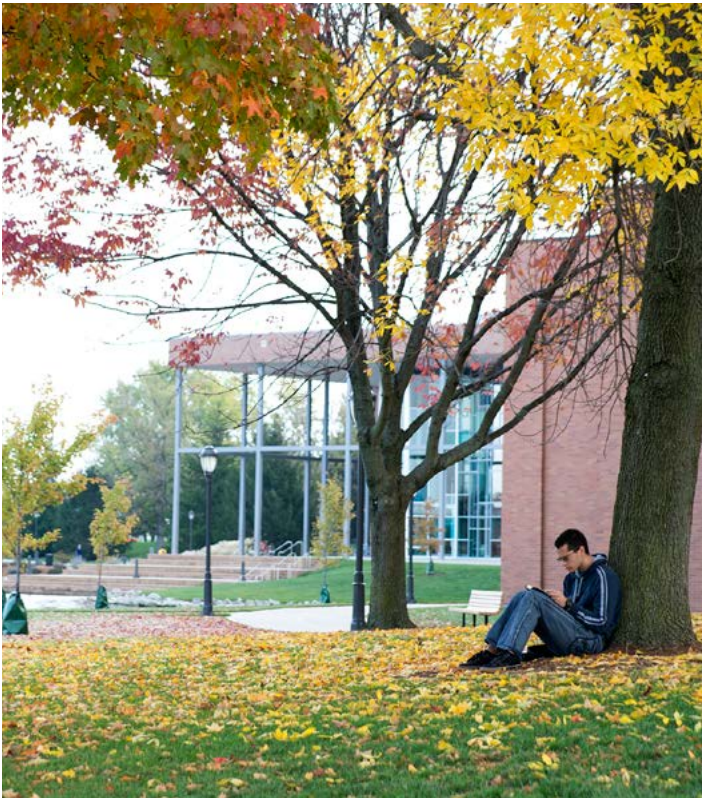
**Delta Alpha Epsilon (DAE)** is comprised of 12 to 16 selected student volunteers. The members of DAE strive to "Build Relationships by Serving." They represent the student body to Cedarville alumni and are devoted to serving alums. The organization also assists the advancement division with a variety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

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

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

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

**VISION** is a diversity organization through Admissions that is dedicated to recruit prospective students from under-represented 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.





# Admissions

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## Undergraduate Admission Criteria

Apply online at [cedarville.edu/myapplication](http://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, pharmacy, 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.*

### Admission Criteria for Freshmen Candidates

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

### Admission Criteria for Transfer Candidates

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

### Admission Criteria for Postbaccalaureate Candidates

1. Evidence of a personal relationship with Jesus Christ.
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 International Candidates (non-U.S. citizens)

1. Evidence of a personal relationship with Jesus Christ.
2. A consistent Christian lifestyle confirmed by a Christian leader reference.
3. Successful completion of a secondary school program.
4. Transfer applicants should have a minimum of a 3.0 cumulative college grade point average in nondevelopmental course work.
5. Minimum TOEFL score of 80 or IELTS score of 6.5.

### Admission Criteria for College Now Candidates

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

### Admission Criteria for Readmit Candidates

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

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.



## Undergraduate Admission Process and Deadlines

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

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

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

## Reservation Deposit

A reservation deposit must be submitted by new and readmitted students to indicate their intention to enroll. This money is credited to the student's account and used to cover tuition expenses. A student must submit a reservation deposit to register for courses.

The reservation deposit is fully refundable if the request for refund is received before the reservation deposit deadline. 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](http://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/accepted](http://cedarville.edu/accepted).*

## New Student Orientation

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

## Undergraduate Admission 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, and international baccalaureate courses.

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

### Grade Point Average Calculation

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

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

### Homeschooled Students Transcript Policy

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

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

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

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

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

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

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

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

### High School Graduation Date Policy

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

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

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

## Standardized Test Use

### General Use

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

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

### Financial Aid

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

### Proficiency and Test Out

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

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

## Undergraduate Transfer Policies

College-level credits earned at accredited colleges are usually transferrable to Cedarville University. Courses in which less than a “C-” is earned are not granted transfer credit. Grades for courses taken at other colleges and transferred to Cedarville are not included in the Cedarville cumulative GPA. Only work completed at Cedarville is included. Information concerning the transfer of credits is available from the Office of the Registrar. Specific course equivalencies can be determined upon receipt of official transcripts.

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

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

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

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

Questions concerning immigration issues should be directed to the international student advisor. International students may qualify for some academic institutional scholarships by submitting either SAT or ACT scores along with their transcripts. Campus employment is also available during the school year and summer.





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## Graduate and Professional Education

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

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

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

Current graduate, first-professional, and certificate offerings:

Degree/Program	Delivery Format
----------------	-----------------

*Master's Degrees*

Master of Business Administration	Online
Concentration: Operations Management	Online
Master of Education	Online
Master of Ministry	Campus
Master of Science in Nursing	
Focus: Family Nurse Practitioner	Hybrid
Focus: Global Public Health Nursing	Online

*Professional Degree*

Doctor of Pharmacy	Campus
Dual Degree: Pharm.D./M.B.A.	Campus/Hybrid

*Graduate Certificates (non-degree)*

Global Public Health Nursing	Online
Principal Licensure	Online
Reading Endorsement	Online

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

## Undergraduate Study

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

## Calendar and Credits

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

## Classification of Students

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

## Assignment to Classes

Official class membership is determined according to the following schedule:

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

## Class Attendance

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

## Undergraduate Degree Requirements

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



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

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

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 course work 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. They are urged to plan the class schedule for both semesters of the senior year at early registration time at the end of the junior year. This plan should be approved by the faculty advisor and checked to see that when it is completed all degree requirements will have been met.

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

## IMPORTANT

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

## Early Commencement

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



## Academic Programs and Majors

### Admission to Academic Programs

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

### Selecting a Major

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

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

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

### Requirements of a Major

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

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

Major courses in which “D” grades are received may count as meeting the requirements of the major field if permitted by departmental policy. If “D” grades are not permitted, the department Chair 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.



## Major Fields of Undergraduate Study

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

- Accounting
- Allied Health
- Applied Communication
- Athletic Training
- Biblical Studies
- Biology
- Broadcasting and Digital Media
- Chemistry
- Chemistry Education
- Christian Education
- Computer Engineering
- Computer Science
- Criminal Justice
- Early Childhood Education
- Economics — Bachelor of Arts
- Economics — Bachelor of Science
- Electrical Engineering
- English
- Environmental Science
- Exercise Science
- Finance
- Forensic Science
- Geology
- Geosciences
- Global Business
- History
- History — Political Science\*
- Industrial and Innovative Design\*
- Information Technology Management
- Intercultural Studies — Missiology
- International Studies\*
- Journalism
- Keyboard Pedagogy
- Language Arts Education — Integrated
- Liberal Arts
- Life Science Education
- Linguistics
- Management
- Marketing
- Mathematics
- Mathematics Education — Integrated
- Mechanical Engineering
- Middle Childhood Education
- Molecular and Cellular Biology
- Music
- Music Composition
- Music Education — Multi-Age
- Music Performance
- Nursing
- Pharmaceutical Sciences
- Physical Education — Multi-Age
- Physical Science Education
- Physics
- Physics Education
- Political Science
- Prelaw\*
- Professional Writing and Information Design
- Psychology
- Public Administration\*
- Science Comprehensive Education — Integrated
- Social Studies Education — Integrated
- Social Work
- Spanish
- Spanish Education — Multi-Age
- Special Education-Intervention Specialist
- Sport Business Management
- Studio Art
- Theatre
- Visual Communication Design
- Worship
- Youth Ministries

## Minor Fields of Undergraduate Study

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

- Actuarial Science
- Arts Administration
- Asian Studies
- Bible
- Bible Teacher Education
- Biblical Care and Counseling
- Bioethics
- Biology
- Biomedical Engineering
- Broadcasting and Digital Media
- Business Administration
- Chemistry
- Christian Education
- Christian Ministries Management
- Church History
- Coaching
- Comprehensive Communication Arts
- Computer Science
- Interactive Web Design
- Creative Writing
- Criminal Justice
- Cross-Cultural Nursing
- Digital Film
- Digital Photography
- Earth Science
- Economics
- Editing and Publishing
- Entrepreneurship
- French
- Geology
- German
- Graphic Design
- Greek
- History
- Information Technology Management
- Intercultural Communication
- International Business
- International Studies
- Latin American Studies
- Linguistics
- Literature
- Marketing
- Mathematics
- Middle Eastern Studies
- Mission
- Motion Graphics
- Music
- Music Technology
- Organizational Communication
- Pastoral Ministry
- Philosophy and Theology
- Physics
- Political Science
- Preseminary Bible
- Psychology
- Public Administration
- Public Policy
- Public Relations
- Sociology
- Spanish
- Spanish for Professionals
- Sport Management
- Sport Ministry
- Studio Art
- Teaching English to Speakers of Other Languages (TESOL)
- Theatre
- Theatre Performance
- Western European Studies
- Women's Ministry
- Worship
- Writing for the Professions
- Youth Ministry



## Electives

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

## Special Academic Programs

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

### One-Year Bible Program

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

### College Now Program

Students entering grades seven through 12 may apply to take dual credit courses in Cedarville's College Now program. These academically rigorous courses are offered at a deeply discounted rate, and Ohio students may use College Credit Plus funding to pay for College Now courses. On-campus housing is not available to College Now students unless they are attending the Summer Studies program.

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

### Preprofessional Programs

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

### Other Programs

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

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

### Continuing Education

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

Non-credit courses do not accumulate toward a degree or

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

Typical courses include Reading Rate and Comprehension, Russian, EMT, and Advanced EMT. Visit [cedarville.edu/continuing](http://cedarville.edu/continuing) for current course and CEU offerings.

### EMT Courses and Special Credit

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

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

Since 2004, the University has been accredited by the State Board of Emergency Medical Services (Accreditation #387) to conduct EMS training. Reaccreditation was granted in 2010 for another five years with the addition of Advanced EMT and paramedic training.

### Summer Terms

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

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

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



## International Study Opportunities

Students are encouraged to take advantage of a semester-long or yearlong programs at one of Cedarville's satellite campuses or to participate in one of our own special summer programs. Participants remain enrolled at Cedarville, continue to receive financial aid, and take courses for Cedarville credit. Semester/Year programs are open to all students who meet the specific program requirements. The Cedarville summer study programs are open to all students. Advanced planning is highly recommended. For additional information and help with planning, contact International Programs at [cedarville.edu/internationalprograms](http://cedarville.edu/internationalprograms). Preapproval from International Programs must be received before students can participate in any of the programs.

### Special Programs

#### *Cedarville University in Spain*

[cedarville.edu/semesterinspain](http://cedarville.edu/semesterinspain)

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

#### *Cedarville University D.C. Semester*

[cedarville.edu/dcsemester](http://cedarville.edu/dcsemester)

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

#### *Summer Geology of National Parks*

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

#### *Cedarville Summer Abroad Programs*

International Programs is continually working with professors who desire to teach a specialized course abroad. Each summer there are opportunities for students to take general education and upper-level courses abroad with our own professors. These courses are ideal for students whose majors do not have the flexibility of a semester abroad. Locations vary each summer.

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

### CCTECC Student Teaching Abroad Program

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

Students apply for this program early in their junior year. Only those with a good academic record, strong character, and spiritual and professional performance references are allowed to go overseas. Schools and mentor teachers who meet Cedarville's standards and the requirements of the Ohio Department of

Education participate. CCTECC helps ensure that students are placed in environments that are safe and nurturing both personally and spiritually. Students interested in this program should contact Dr. Brenda MacKay.

### Au Sable Institute of Environmental Studies

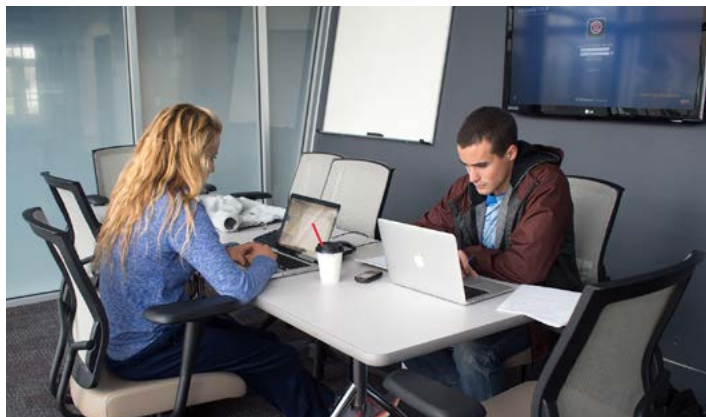
Cedarville University is a "sustaining partner" with Au Sable Institute. Students enrolled at Cedarville University (and who meet prerequisites) may take advantage of courses offered by the Au Sable Institute, including geographic information systems, marine mammals, international development, tropical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

### The Cove — Academic Enrichment Center

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

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





## Credit by Examination

### Advanced Placement

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

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

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

### College Level Examination Program (CLEP)

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

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



### Programs

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

### Courses

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

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

### Services

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

See [cedarville.edu/TheCove](http://cedarville.edu/TheCove) for more information on the programs, courses and services.

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

## Additional Academic Support

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

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

### Institutional Test-Out

Qualified students may earn credit toward graduation by passing the appropriate examinations with a grade of “B” or better. A student interested in testing out should obtain a test-out request form from the Office of the Registrar, obtain approval for the 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 1020 or higher on the SAT (Critical Reading + Math combined score) 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 1000 SAT (Critical Reading + Math combined score) 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 course work completed prior to enrollment at Cedarville. Proficiency will be satisfied and transfer credit will also be awarded
4. Successfully complete the course COLL-0900 Foundations (one semester hour; fee: \$150), which is to be taken during the first semester of matriculation. This credit does not apply toward the 128 credits needed for graduation. *NOTE: Pending availability in the course, COLL-0900 Foundations is open to all students regardless of whether or not they satisfy the college study skills requirement.*

#### II. English and Mathematics Proficiency ..... 0–5 hrs

Each student upon initial enrollment at the University must demonstrate proficiency in English and mathematics.

##### A. English..... (0–3)

Students may satisfy the English proficiency requirement through any one of the following methods:

1. Score 21\* or higher on the English section of the ACT; or
2. Score 500\* or higher on the critical reading section of the recentered SAT; or
3. Score 59 or higher on the CLEP College Composition Examination; or
4. Complete a course equivalent to Cedarville University ENG-1000 Basic English with a grade of “C-” or higher (A = 4.0 system) at another approved institution of higher learning prior to matriculation at Cedarville. The credits will not be transferred, but proficiency will be established and enrollment in ENG-1400 Composition will be permitted; or
5. Complete a college-level composition course with a grade of “C-” or higher (A = 4.0 system) at another approved institution of higher learning. Proficiency will be satisfied and transfer credit will be awarded; or
6. Complete the preliminary assessment for ENG-1000 Basic English with a score of 80 percent or higher; or
7. If proficiency is not verified by any of the means listed above, the required proficiency must be achieved through a successful completion of the course ENG-1000 Basic English (three semester hours), **which is to be taken during the first semester of matriculation. These three credits do not apply toward the 128 credits needed for graduation.**

##### B. Mathematics..... (0–2)

Students may satisfy the mathematics proficiency requirement through any one of the following methods:

1. Score 19\* or higher on the mathematics section of the ACT; or
2. Score 500\* or higher on the quantitative section of the recentered SAT; or

3. Score 53 or higher on the CLEP College Algebra exam; or
4. Complete a course equivalent to DEV-0900 Intermediate Algebra with at least a grade of “C-” or higher (A = 4.0 system) at another approved institution of higher learning. The credits will not be transferred, but proficiency will be established and enrollment in college-level quantitative courses will be permitted; or
5. 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
6. Complete the ALEKS assessment with a score of 100 on the mathematics section and a score of 80 or higher on the algebra section; or
7. If proficiency is not verified by any of the means listed above, the required proficiency must be achieved through successful completion of the course DEV-0900 Intermediate Algebra (two semester hours), which should be completed during the first semester of matriculation at Cedarville University and **must be completed no later than the last term of the sophomore year. These two credits do not apply toward the 128 credits needed for graduation.**

#### III. Biblical Education ..... 15 hrs

- A. BTGE-1720 Spiritual Formation ..... 3
- B. BTGE-2730 Old Testament Literature ..... 3
- C. BTGE-2740 New Testament Literature ..... 3
- D. BTGE-3755 Theology I ..... 3
- E. BTGE-3765 Theology II ..... 3

#### IV. Communication ..... 6 hrs

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

#### V. Humanities ..... 9 hrs

- A. HUM-1400 Introduction to the Humanities ..... 3
- B. Any 2000-level literature course ..... 3
- C. At least three semester hours from the following:.....\*\*3
  - \*\*ANTH-1800 Cultural Anthropology .....3
  - ART-1100 Introduction to Art.....3
  - BTPA-2200 Introduction to Philosophy .....3
  - BTPA-2250 Ethics.....3
  - BTPA-2260 World Religions
  - COM-2140 Intercultural Communication .....3
  - COM-2300 Voices of Diversity.....3
  - COM-4110 History of Public Address.....3
  - EDUC-2400 Children’s Literature .....3
  - EDUC-3100 Philosophical Foundations of Education ....3
  - EGGN-3110 Professional Ethics .....3
  - FILM-2350 Christian Motifs in Film.....3
  - HLMU-2310 Introduction to Music Literature .....3
  - HUM-2430 Enjoyment of Music.....3
  - NSG-3050 Behavioral and Mental Health Care.....6
  - PSYCH-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) 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 (B.A.), Bachelor of Music (B.M.), or Bachelor of Music Education (B.M.E.)** degree must meet one of the following requirements:

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

Students pursuing a **Bachelor of Science (B.S., B.S.Cp.E., B.S.N., B.S.E.E., and B.S.M.E.)** degree must complete one of the following:

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

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

**VII. Physical Education ..... 2 hrs**

- A. PEF-1990 Physical Activity and the Christian Life ..... 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.

At least three semester hours selected from the following quantitative courses:

- BUS-2110, 2120 Statistics ..... 4
- EDUC-2800 Principles of Mathematics II ..... 3
- GMTH-1010 Introduction to Mathematics ..... 3
- GMTH-1020 College Algebra ..... 3
- GMTH-1030 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
- C. Students pursuing Bachelor of Science degrees (B.S., B.S.N., B.S.Cp.E., B.S.E.E., and B.S.M.E.) must complete an additional six semester hours. These hours must be selected from courses with BIO, CHEM, ESCI, GBIO, GSCI, GMTH, MATH, and PHYS designators; decision sciences; statistics; or computer application courses selected from the following:
  - EGCP-1010 Digital Logic Design ..... 3
  - ITM-2300 Introduction to Programming ..... 3

**IX. Social Sciences and History ..... 9 hrs**

- A. GSS-1100 Politics and American Culture ..... 3
- B. One course in history ..... 3
- C. One course selected from the following:..... 3  
A second HIST course or  
Any course with a designator of ANTH\*\*, CRJU, GEO, INTL, POLS, PUAD, SOC, and SWK or PSYCH-1600 General Psychology; 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-1720 Spiritual Formation
- COM-1100 Fundamentals of Speech
- ENG-1400 Composition
- PEF-1990 Physical Activity and the Christian Life
- Quantitative Course Requirement (See the General Education Requirements for Science and Mathematics)



**Course Load**

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

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

*To request 19–21.5 credit hours*

The following students require advisor approval:

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

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

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

*To request 22 or more credit hours*

- All students require approval of advisor, associate/assistant dean or department chair, and dean of undergraduate studies.

The following situation requires Vice President for Academics approval:

- When dean of undergraduate studies is not available

**Distance Education**

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

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**

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

**Registration for Courses****Continuing at the University**

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

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

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

**Course Registration**

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

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

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

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

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

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

### 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 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:

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

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

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

### Auditing

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

### 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.

## Course Numbers and Designations

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

1. The first number indicates the year in which the course is usually taken. Freshmen and College Now students normally take 1000-level courses; sophomores, 1000-level or 2000-level courses; juniors, 2000-level or 3000-level courses; and seniors, 3000-level or 4000-level courses. College Now Students are limited to 1000-level or 2000-level courses unless approved by dean of undergraduate students. Courses beyond the degree student's classification should be taken with the consent of the instructor and academic advisor.
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.

## 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 course work on time because of extraordinary circumstances, such as illness, emergency, or other reasonable cause. This temporary grade does not influence the student's GPA. To be considered for an incomplete, the student must be passing the course and have completed the majority of the course work. The instructor giving the incomplete will establish an appropriate completion date with the student. This date may extend to the end of the semester following the one in which the course was taken. If the work is not completed by the designated date, the "I" will be changed to an "F" and will be calculated as such in the student's GPA.
- INC** Indicates a permanent incomplete, a grade assigned in special situations by the faculty member with the approval of the Vice President for Academics. This permanent grade does not influence the student's GPA. To receive a permanent incomplete, the faculty member should submit the appropriate form to the Registrar identifying the circumstances warranting this special grade. If a permanent incomplete is awarded, the grade may not be changed at a future date. To receive credit for the course, the student must again register for the course and complete the course requirements.
- K** Signifies credit and accompanies courses transferred from other colleges or universities. It has no effect upon cumulative GPA.
- NC** Indicates no credit has been earned. Credit hours for which an "NC" has been earned are not used in the computation of GPAs.
- NP** Indicates that the student did not pass a course where the credits do not count toward the graduation requirements. Basic English and Intermediate Algebra are examples of such courses.
- NR** Indicates that the faculty member did not submit the grade in time for it to appear on the grade card.
- P** Indicates that the student performed satisfactory work ("C-" average or better) in a course where the credits do not count toward graduation, such as Basic English or Intermediate Algebra.
- W** Indicates that the student withdrew from the course between the second and ninth weeks of the semester.
- WP** Indicates that the student is passing when a course is dropped during the 10th and 11th weeks of the semester.
- WF** Used during the 10th and 11th weeks of the semester if the student is failing at the time of withdrawal.
- Z** Indicates that the student did not complete the course but did not officially withdraw. A "Z" is treated in the same manner as an "F" grade when figuring the GPA.

## Credit/No Credit Program

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

The following guidelines govern involvement in the program:

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.

## 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 college or the dean of undergraduate studies. First-semester freshmen who do not meet the 1.0 average will usually not be academically suspended in order to provide some additional time for them to make the adjustment to college life.

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

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

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

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

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

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

## Repeating Courses

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

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 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." 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  
 Room: prorated on a per diem basis  
 Board: prorated on a per diem basis  
 Fees: 0

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

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

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

## Family Educational Rights and Privacy Act

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



## Academic Leadership

**Loren Reno**, *Interim Vice President for Academics and Chief Academic Officer*

### Deans and Chairs

*Department of Art, Design, and Theatre*

**Terry Chamberlain**, *Chair*; Associate Professor of Fine Art

*School of Engineering and Computer Science*

**Robert Chasnov**, *Dean*; Senior Professor of Engineering

*School of Education*

**Jeremy Ervin**, *Dean*; Associate Professor of Education

*Department of Science and Mathematics*

**Dennis Flentge**, *Chair*; Senior Professor of Chemistry

*Department of Communication*

**Derrick Green**, *Interim Chair*; Assistant Professor of Communications; Director of Forensics

*School of Business Administration*

**Jeffrey Haymond**, *Dean*; Associate Professor of Economics

*Department of English, Literature, and Modern Languages*

**Kevin Heath**, *Chair*; Professor of English

*Department of Kinesiology and Allied Health*

**Evan Hellwig**, *Chair*; Professor of Athletic Training; Certified Athletic Trainer (BOC); licensed physical therapist

*Department of Social Work*

**Nelson Henning**, *Chair*; Senior Professor of Social Work

*School of Biblical and Theological Studies*

**Jason K. Lee**, *Dean*; Professor of Theological Studies

*Department of History and Government*

**Thomas Mach**, *Chair*; Professor of History

*School of Nursing*

**Angelia Mickle**, *Acting Dean*; Assistant Professor of Nursing

*Department of Music and Worship*

**Beth Cram Porter**, *Chair*; Associate Professor of Vocal Music

*School of Pharmacy*

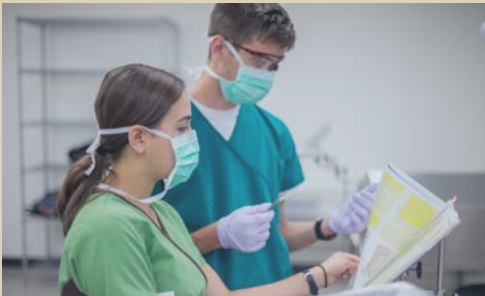
**Marc Sweeney**, *Dean*; Professor of Pharmacy Practice

*Department of Psychology*

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



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# Department of Art, Design, and Theatre

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## Mission Statement

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

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

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

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

## Personal Requirements

### Scholarships

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

### Portfolio

Applicants who wish to major in studio art, industrial and innovative design, or graphic design should follow the standard procedure for admission. A portfolio submission for art majors is encouraged but is not a requisite for admission into the program. Portfolios should be submitted on a CD or at an arranged 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 graphic design, industrial and innovative design, and studio art majors on a conditional basis. After the second semester of study, freshmen are evaluated by the art and design faculty to determine whether they are making adequate progress to continue in their respective programs and/or exhibit the talent necessary to be successful in their chosen fields. Students who do not show satisfactory progress and/or talent will be advised to consider other majors unless they show significant improvement.

### Sophomore Review

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



If necessary, the student may be required to present a portfolio representing every area of his or her work in visual communication design and/or studio art courses at the University. The portfolio should include original two-dimensional work and a CD of images of three-dimensional work. Students who do not pass their sophomore review will not be allowed to continue in the major.

## Transfer Review

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

## Art and Design Requirements

### Art and Design Student Handbook

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

### Capstone Exhibition or Project

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

### Fees

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

## Theatre Requirements

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



## Programs of Study

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

### Bachelor of Arts (B.A.) in:

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

### Minors

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

## Technical Resources

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

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

The computer network provides tools for research and design.





## Cocurricular Opportunities

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

### Theatre Cocurricular Opportunities

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

### Career Opportunities

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

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

### Faculty

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

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

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



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

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

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

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

**Matthew M. Moore**, Associate Professor of Theatre. *Education*: B.A., Cedarville University, 1992; M.A., Miami University, 1997; M.F.A., George Washington University, 2009. At Cedarville since 1998.

**Philip Schanely**, Assistant Professor of Interactive Design. *Education*: B.A., Cedarville University, 2006. At Cedarville since 2014.

**Daniel Sternsher**, Assistant Professor of Graphic Design. *Education*: B.S., Bowling Green State University, 1989; M.Ed., Bowling Green State University—College of Technology, 1998. At Cedarville since 2001.

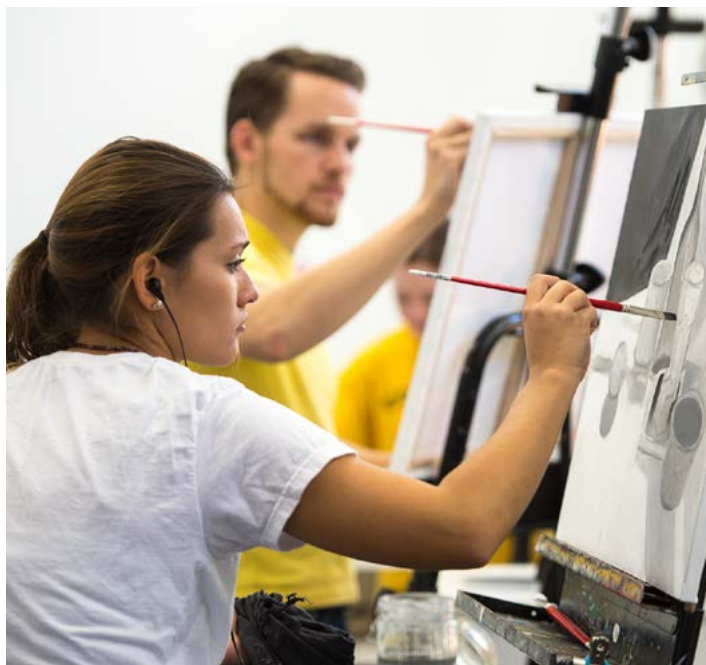
**Aemin Annie Lee-Zimerle**, Assistant Professor of Studio Art. *Education*: B.F.A., The School of the Art Institute of Chicago, 2000; M.F.A., The School of the Art Institute of Chicago, 2003. At Cedarville since 2013.

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

### Technical Support Staff

**Bader, Ronald**, Three-Dimensional Arts Studio Supervisor. *Education*: B.F.A., Wright State University. At Cedarville since 1990.

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



## 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:

<b>Industrial and Innovative Design Core</b> .....	<b>83</b>
ART-1100 Introduction to Art .....	3
ART-1110 Drawing Foundations .....	3
ART-1230 Two-Dimensional Design.....	3
ART-2230 Three-Dimensional Design .....	3
VCD-1100 Digital Imaging: Adobe Photoshop.....	3
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 .....	5
IDES-3310 Fundamentals of Surface Development I .....	3
IDES-3320 Fundamentals of Surface Development II .....	4
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.....	11
Electives selected from the following .....	3
ART-2160 Sculpture Foundations .....	3
ART-3230 Watercolor .....	3
BUS-2100 Business Communication .....	3
VCD-1150 Digital Imaging: Adobe Illustrator.....	3

### Industrial and Innovative Design Curriculum Summary

Proficiency Requirements .....	0–5
Other General Education Requirements.....	48–56
Industrial and Innovative Design Major Requirements .....	83
<b>Total (minimum, not including proficiency) .....</b>	<b>131</b>

### 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-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
GBIO-1000 Principles of Biology .....	3.5
VCD-1100 Digital Imaging: Adobe Photoshop.....	3
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life .....	2
Quantitative Elective .....	3
<b>Total .....</b>	<b>32.5</b>

#### 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
IDES/VCD-2000 History and Influences of Design.....	3
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
<b>Total .....</b>	<b>30.5</b>

#### Third year:

BTGE-3755 Theology I.....	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 .....	5
IDES-3310 Fundamentals of Surface Development I .....	3
IDES-3320 Fundamentals of Surface Development II.....	4
IDES-3410 Three-Dimensional Composition .....	4
IDES-3420 Three-Dimensional Presentation .....	4
<b>Total .....</b>	<b>33</b>

#### Fourth year:

BTGE-3765 Theology II .....	3
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 .....	11
<b>Total .....</b>	<b>35</b>



### 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:

<b>Studio Art Core</b> .....	<b>54</b>
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-2160 Sculpture Foundations .....	3
ART-2170 Printmaking Foundations .....	3
ART-2230 Three-Dimensional Design .....	3
ART-3150 Ceramics.....	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-3160 Intermediate Sculpture .....	3
ART-3170 Intermediate Printmaking.....	3
ART-4130 Advanced Painting.....	3–6
ART-4150 Advanced Ceramics.....	3–6
ART-4160 Advanced Sculpture.....	3–6
ART-4170 Advanced Printmaking.....	3–0
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
BTPA-4260 Philosophy of Art.....	2
BUS-2100 Business Communication .....	3
VCD-1150 Digital Imaging: Adobe Illustrator .....	3
VCD-1100 Digital Imaging: Adobe Photoshop .....	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.....	0–5
Other General Education Requirements.....	48–56
Studio Art Major Requirements.....	62
General Electives .....	10–18
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

### Suggested Four-Year Curriculum for a Major in Studio Art

<i>First year:</i>	
ART-1100 Introduction to Art .....	3
ART-1110 Drawing Foundations .....	3
ART-1230 Two-Dimensional Design.....	3
BTGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
GBIO-1000 Principles of Biology .....	3.5
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life .....	2
LIT-2XXX Literature Elective .....	3
<b>Total .....</b>	<b>32.5</b>
<i>Second year:</i>	
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
<b>Total .....</b>	<b>30</b>
<i>Third year:</i>	
ART-2170 Printmaking Foundations .....	3
ART-3150 Ceramics .....	3
BTGE-3755 Theology I.....	3
BTGE-3765 Theology II .....	3
Art Elective .....	12
Electives .....	9
<b>Total .....</b>	<b>33</b>
<i>Fourth year:</i>	
ART-4300 Art Exhibition .....	3
ART-4400 20th Century Art .....	3
Art Electives .....	11
History Elective.....	3
Physical Science Elective.....	3.5
Electives .....	9
<b>Total .....</b>	<b>32.5</b>



## Theatre

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

In addition to studio and classroom instruction, students gain practical experience through working on department productions and serving on production teams. 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 56 semester hours including:

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

\*Capstone Course

## Theatre Major Curriculum Summary

Proficiency Requirements .....	0–5
General Education Requirements .....	48–56
Theatre Major Requirements .....	56
Electives .....	16–24
<b>Total (minimum, not including proficiency)</b> .....	<b>128</b>

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

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

#### First year:

BTGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech .....	3
ENG-1400 Composition .....	3
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to the Humanities .....	3
THTR-1360 Introduction to Costuming .....	3
THTR-1410 Introduction to Theatre .....	3
THTR-1440 Stagecraft I .....	1
THTR-1450 Stagecraft II .....	1
THTR-1490 Introduction to Stage Lighting .....	3
PEF-1990 Physical Activity and the Christian Life .....	2
Biology Elective .....	3.5
<b>Total</b> .....	<b>31.5</b>

#### Second year:

BTGE-2730 Old Testament Literature .....	3
BTGE-2740 New Testament Literature .....	3
LIT-2XXX Literature Elective .....	3
THTR-2350 Directing I .....	3
THTR-2430 Acting I .....	3
THTR-2470 Makeup Design .....	2
THTR-2500 Introduction to Scenic Design .....	3
Quantitative Elective .....	3
Theatre Concentration Courses .....	7
<b>Total</b> .....	<b>30</b>

#### Third year:

BTGE-3755 Theology I .....	3
BTGE-3765 Theology II .....	3
THTR-3420 Theatre History I .....	2
THTR-3430 Theatre History II .....	2
THTR-3470 Dramaturgy .....	3
Theatre Concentration Courses .....	10
History Elective .....	3
Physical Science Elective .....	3.5
Electives .....	4
<b>Total</b> .....	<b>33.5</b>

#### Fourth year:

THTR-4400 Professional Preparation Seminar .....	2
THTR-4630 The Christian in Theatre .....	2
Theatre Concentration Courses .....	6
Social Science/Global Awareness Elective .....	3
Electives .....	20
<b>Total</b> .....	<b>33</b>

### Visual Communication Design

Although approved by the Cedarville University faculty and trustees, the Bachelor of Arts degree program in visual communication design was still under review by the Ohio Board of Regents at the time of this publication. For this reason, the requirements for this program are listed in this catalog for information only. Final approval from the Ohio Board of Regents must be received before students may officially declare this academic program. In the interim, students interested in this program should declare a major of Graphic Design. Please refer to the online catalog for confirmation of the current status of the visual communication design program.

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

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

The following requirements involve 67 semester hours:

<b>Visual Communication Design Core</b> .....	<b>43–49</b>
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-1100 Digital Imaging: Adobe Photoshop.....	3
VCD-1150 Digital Imaging: Adobe Illustrator .....	3
VCD-1200 Design Thinking .....	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
VCD-4200 Portfolio II.....	1
VCD-4900 Visual Communication Design Internship .....	0–6
<b>Electives selected from the following</b> .....	<b>0–6</b>
ART-2110 Intermediate Drawing.....	3
ART-2130 Painting Foundations.....	3
ART-2160 Sculpture Foundations .....	3
ART-2170 Printmaking Foundations.....	3
ART-2250 Creative Photography.....	3
ART-3150 Ceramics .....	3
ART-3250 Studio Photography.....	3
BRDM-2606 Introduction to Computer Animation for Electronic Media.....	2
BRDM-3630 Principles of Computer Animation .....	3
BRDM-3611 Web Analytics .....	3
ITM 2300 Introduction to Programming.....	3
PWID-4050 Designing Online Information I.....	3
Any 3000- or 4000-level VCD course .....	3
<b>Graphic Design Concentration</b> .....	<b>18</b>
BRDM-2350 Introduction to Graphics for TV and Film.....	3
VCD-3300 Production Design I .....	3
VCD-3400 Graphic Design II.....	3
VCD-4300 Production Design II .....	3
VCD-4400 Graphic Design III.....	3
Electives selected from the following:.....	3
VCD-2700 Scripting for Interactivity .....	3
VCD-3700 User Experience and Interface Design .....	3
<b>Interactive Web Design Concentration</b> .....	<b>18</b>
VCD-2700 Scripting for Interactivity .....	3
VCD-3600 Web Design II .....	3
VCD-3700 User Experience and Interface Design.....	3
VCD-4600 Web Design III .....	3
VCD-4700 Interactive Design Capstone.....	3
Electives selected from the following:.....	3
VCD-3300 Production Design I.....	3
VCD-3400 Graphic Design II.....	3
<b>Visual Communication Design Curriculum Summary</b>	
Proficiency Requirements .....	0–5
Other General Education Requirements.....	48–56
Visual Communication Design Major Requirements .....	67
General Electives .....	5-13
<b>Total (minimum, not including proficiency)</b> .....	<b>128</b>



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

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

### First year:

ART-1100 Introduction to Art .....	3
ART-1110 Drawing Foundations .....	3
ART-1230 Two-Dimensional Design .....	3
BTGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech .....	3
ENG-1400 Composition .....	3
GBIO-1000 Principles of Biology .....	3.5
VCD-1100 Digital Imaging: Adobe Photoshop .....	3
VCD-1150 Digital Imaging: Adobe Illustrator .....	3
VCD-1200 Design Thinking .....	2
Quantitative Elective .....	3
<b>Total .....</b>	<b>32.5</b>

### 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 the Christian Life .....	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
<b>Total .....</b>	<b>30.5</b>

### Third year:

ART-3310 Art History I .....	3
ART-3320 Art History II .....	3
BTGE-3755 Theology I .....	3
BTGE-3765 Theology II .....	3
HUM-1400 Introduction to the Humanities .....	3
PWID-3010 Style and Mechanics .....	3
VCD-4200 Portfolio II .....	1
LIT-2XXX Literature Elective .....	3
Social Science Elective .....	3
Concentration Requirements .....	6
<b>Total .....</b>	<b>31</b>

### Fourth year:

VCD-4900 Visual Communication Design Internship .....	0-6
Visual Communication Design Electives .....	0-6
History Elective .....	3
Concentration Requirements .....	12
Electives .....	13
<b>Total .....</b>	<b>34</b>



**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 ..... 2  
 WSHP-2060 Music and the Arts in Worship ..... 3

**Digital Photography Minor**

The **digital photography minor** is a value-added program designed to provide students with artistic and professional digital photography and image-editing skills to produce creative, quality photographs and images that complement personal and professional goals.

**Digital Photography Core ..... 17**

ART-2250 Creative Photography ..... 3  
 ART-3250 Studio Photography ..... 3  
 ART-4250 Advanced Digital Photography ..... 3  
 ART-4260 Photography Portfolio and Exhibition ..... 2  
 VCD-1100 Digital Imaging: Adobe Photoshop ..... 3  
 JOUR-4610 Photojournalism ..... 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 course work in both manual and computer-assisted art. It is suggested that students who minor in graphic design begin the program no later than their sophomore year. Course requirements involve 20 semester hours.

**Graphic Design Core .....20**

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

**Interactive Web Design Minor**

The **Interactive Web Design minor** is a value-added program that provides students with web design skills to complement their chosen majors or fields of study. Course requirements involve 19 semester hours.

**Interactive Web Design Core ..... 16**

VCD-1000 Graphic Design for Non-Majors ..... 3  
 or (VCD-2400 Graphic Design I ..... 3)  
 VCD-1200 Design Thinking ..... 2  
 VCD-2600 Web Design I ..... 3  
 VCD-2700 Scripting for Interactivity ..... 3  
 VCD-3600 Web Design II ..... 3  
 VCD-3700 User Experience and Interface Design ..... 3

**Elective selected from the following .....3**

BRDM-2350 Introduction to Graphics for TV and Film ..... 3  
 BRDM-3611 Web Analytics ..... 3  
 ITM-2300 Introduction to Programming ..... 3  
 PWID-4050 Designing Online Information I ..... 3  
 VCD-4600 Web Design III ..... 3

**Studio Art Minor**

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

**Art Core ..... 12**

ART-1100 Introduction to Art ..... 3  
 ART-1110 Drawing Foundations ..... 3  
 ART-1230 Two-Dimensional Design ..... 3  
 ART-2230 Three-Dimensional Design ..... 3

**Electives selected from the following .....6**

ART-2110 Intermediate Drawing ..... 3  
 ART-2130 Painting Foundations ..... 3  
 ART-2160 Sculpture Foundations ..... 3  
 ART-2170 Printmaking Foundations ..... 3  
 ART-2250 Creative Photography ..... 3  
 ART-3150 Ceramics ..... 3  
 ART-3230 Watercolor ..... 3

**Theatre Minor**

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

THTR-1410 Introduction to Theatre .....3  
 THTR-1440 Stagecraft I ..... 1  
 THTR-2430 Acting I .....3  
 Theatre Electives .....9



**Theatre Design Minor**

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

**Theatre Design Minor core ..... 16**

THTR-1360 Introduction to Costuming .....	3
THTR-1410 Introduction to Theatre .....	3
THTR-1440 Stagecraft I.....	1
THTR-1490 Introduction to Stage Lighting .....	3
THTR-2500 Introduction to Scenic Design .....	3

**One advanced theatre design course selected from the following:**

THTR-2460 Costume Design.....	3
THTR-3490 Stage Lighting Design.....	3
THTR-4500 Scenic Design .....	3

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

ART-1110 Drawing Foundations .....	3
ART-3230 Watercolor.....	3
VCD-1100 Digital Imaging: Adobe Photoshop.....	3
THTR-2470 Makeup Design.....	2
THTR-3440 Stage Costume History.....	3
THTR-3520 Scenic Painting .....	3

**One advanced theatre design course selected from the following not already taken in core:**

THTR-2460 Costume Design.....	3
THTR-3490 Stage Lighting Design.....	3
THTR-4500 Scenic Design .....	3



**Theatre Performance Minor**

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

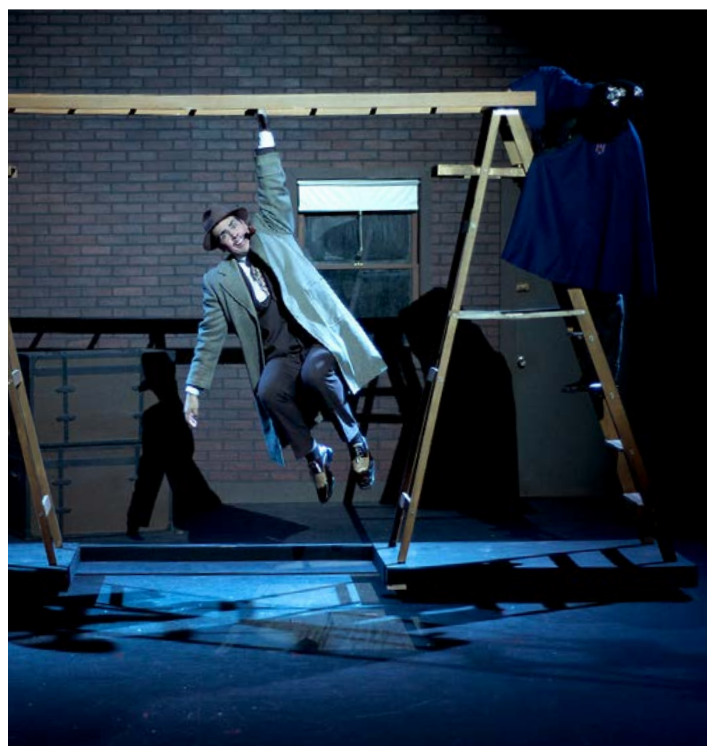
**Theatre Performance minor core..... 16**

THTR-1230 Voice for the Performer .....	3
THTR-1410 Introduction to Theatre .....	3
THTR-1430 Stage Movement.....	3
THTR-1440 Stagecraft I.....	1
THTR-2430 Acting I.....	3
THTR-2350 Directing I.....	3

or THTR-3460 Acting II .....3

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

THTR-2410 Advanced Performance Techniques .....	3
THTR-2470 Makeup Design .....	2
THTR-2510 The Arts and Social Change.....	3
THTR-3530 Techniques of American Musical Theatre.....	2
THTR-3610 Theatre for Young People.....	2
THTR-4640 Special Topics-Stage Combat .....	3
THTR-4640 Special Topics-Performing Shakespeare.....	3
THTR-4640 Special Topics-Stage Dialect: Applied Phonetics and Linguistics.....	3







# School of Biblical and Theological Studies

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## Mission Statement

Our Lord Jesus Christ commissioned His followers to “go and make disciples of all nations, baptizing them ... and teaching them to observe all that I commanded you ...” (Matt. 28:19). The apostle Paul is an example of how the early believers embraced this mission and carried it forward. “We proclaim him (Christ),” Paul declared, “admonishing every man and teaching every man with all wisdom, so that we may present every man complete in Christ” (Col. 1:28). Indeed, over the centuries there is an unbroken chain of men and women who have found life doing the same. So it is the mission of the 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 on two levels. First, we are engaged in training men and women professionally and academically. Professionally, we want to equip graduates for full-time ministry in the church by preparing men and women with a theologically informed philosophy of ministry accompanied by the skills and experience needed to actualize it in the church. Majors that particularly facilitate this are Christian education, youth ministries, pastoral studies, world missions, and international studies-missiology. Academically, we want to inspire men and women to use their minds for the glory of God. We want to raise up a generation of scholars whose desire is to bring every thought into submission to Christ for the glory of God. Majors geared toward this purpose are comprehensive Bible, pre-seminary Bible, and philosophy.

Second, we have the institution-wide opportunity of influencing each student through the required Bible minor. On this level we endeavor to aid students from all disciplines in developing a distinctively God-centered world and life view. We believe it to be crucially important that all those who will be appointing the pastors and missionaries of the future, doing the work of the ministry, and serving God through their vocations know how to handle the Word of truth accurately.

To this end, we commit ourselves to facilitating the development in every student of a biblically based, theologically sound, philosophically defensible, and life-transforming view of life under God.

## Personal Requirements

Students planning to pursue careers in vocational ministries should possess a commitment to intense study of the Scriptures, a heart for ministering to the needs of others, and a reputation for Christlike character, which would provide a platform for authentic spiritual leadership. In addition to classroom expectations, students should seek to gain as much practical experience in ministries as possible. Biblical 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.

## School Requirements

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

## Programs of Study

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

### Majors

- Biblical Studies
- Christian Education
- Intercultural Studies - Missiology
- Youth Ministries

### Minors

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

### Special Program

- One-Year Bible Certificate

## Technical Resources

- Concordance and Bible study software (Logos Series-X Scholar’s Edition)
- Textbook-specific software
- Course-specific software

## Cocurricular Opportunities

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

### Alpha Sigma

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

## Career Opportunities

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

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



## Faculty

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

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

**Rob Turner**, *Director of the Master of Ministry Program*. Associate Professor of Bible. *Education*: B.A., Northern Kentucky University, 1995; M.Div., The Southern Baptist Theological Seminary, 2000; Ph.D., The Southern Baptist Theological Seminary, 2011. At Cedarville since 2012.

**Christopher Bruno**, Assistant Professor of Bible and Theology. *Education*: B.A., Northland International University, 2001; M.Div., Southern Baptist Theological Seminary, 2006; Ph.D., Wheaton College, 2009. At Cedarville since 2015.

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

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

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

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

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

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

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

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

**Joshua Kira**, Assistant Professor of Philosophy and Theology. *Education*: B.A., The Master's College, 2001; S.T.M., Yale Divinity School, 2010; Ph.D. (ABD), Claremont Graduate University (Dec 2015). At Cedarville since 2014.

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

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

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

**Erin M. Shaw**, Instructor of Women's Ministry. *Education*: B.S., University of Florida, 2002; M.Div., Southeastern Baptist Theological Seminary, 2005. At Cedarville since 2014.

**Michael Shepherd**, Associate Professor of Biblical Studies. *Education*: B.F.A., New School University (NYC), 2000; M.Div., Southeastern Baptist Theological Seminary, 2004; Ph.D., Southeastern Baptist Theological Seminary, 2006. At Cedarville since 2015.

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

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

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

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

## Emeriti

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

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

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

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

**Biblical Studies**

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

Course requirements involve 83–85 semester hours including:

<b>General Education</b> .....	<b>15</b>
BTGE-1720 Spiritual Formation .....	3
BTGE-2730 Old Testament Literature.....	3
BTGE-2740 New Testament Literature .....	3
BTGE-3755 Theology I.....	3
BTGE-3765 Theology II .....	3
<b>Biblical Studies requirements</b> .....	<b>53</b>
BTAT or BTCM-XXXX Applied Theology or Christian Ministry..	3
BTBL-2010 Introduction to Biblical Language Tools .....	3
BTBS-1000 Introduction to Biblical Studies .....	1
BTBS-2020 Biblical Research Methods.....	1
BTBS-4310 Hermeneutics.....	3
*BTBS-4850 Senior Seminar.....	3
BTHT-2500 Church History.....	3
BTHT-4100 Biblical Theology.....	3
BTHT-4300 Global Theology .....	3
BTNT-3110 New Testament 1: Synoptic Gospels.....	3
BTNT-3130 New Testament 3:Pauline Literature .....	3
BTNT-3120 or 3140 Non-Pauline Literature Elective .....	3
BTOT-3110 Old Testament 1: Pentateuch .....	3
BTOT-3310 Old Testament 3: Latter Prophets.....	3
<b>Select from the following</b> .....	<b>6</b>
BEOT-3140 Psalms.....	3
BEOT-3150 Wisdom Literature.....	3
BTOT-3210 Old Testament 2: Former Prophets.....	3
BTOT-3410 Old Testament 4: Writings.....	3
BTPA-2200 Introduction to Philosophy .....	3
BTHT-XXXX Theology Electives .....	6
<b>Select two history/theology elective from the following:</b>	
BTHT-3340 Christian Theology 1: Bible, Trinity, God the Father .....	3
BTHT-3350 Christian Theology 2: God the Son and God the Spirit .....	3
BTHT-3360 Christian Theology 3: Humanity, Angels, and Salvation.....	3
BTHT-3370 Christian Theology 4: The Church and Last Things.....	3
<b>Required minor</b> .....	<b>15–17</b>

\*Capstone Course

**Biblical Studies Major Curriculum Summary**

Proficiency Requirements .....	0–5
Other General Education Requirements.....	33–41
Biblical Studies Requirements.....	68
Required Minor Requirements.....	15–17
General Electives .....	2–12
<b>Total (minimum, not including proficiency)</b> .....	<b>128</b>

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

*First year:*

BTBS-1000 Introduction to Biblical Studies .....	1
BTBL-2010 Introduction to Biblical Language Tools.....	3
BTGE-1720 Spiritual Formation .....	3
BTGE-2730 Old Testament Literature.....	3
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
GSS-1100 Politics and American Culture.....	3
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life .....	2
Biology Elective .....	3.5
History/Global Awareness Elective .....	3
Physical Science Elective.....	3.5
<b>Total</b> .....	<b>34</b>

*Second year:*

BTAT or BTCM-XXXX Applied Theology or Christian Ministry.....	3
BTBS-2020 Biblical Research Methods.....	1
BTBS-4310 Hermeneutics .....	3
BTGE-2740 New Testament Literature .....	3
BTGE-3755 Theology I.....	3
BTNT-3110 New Testament 1: Synoptic Gospels.....	3
BTOT-3110 Old Testament 1: Pentateuch .....	3
BTPA-2200 Introduction to Philosophy .....	3
LIT-2XXX Literature Elective .....	3
Quantitative Elective.....	3
Social Science Elective .....	3
<b>Total</b> .....	<b>31</b>

*Third year:*

BTGE-3765 Theology II .....	3
BTHT-2500 Church History.....	3
BTHT-XXXX Theology Elective.....	6
BTHT-4300 Global Theology .....	3
BTOT-XXXX Psalms, Wisdom Literature, Old Testament: 2 or 4 Electives .....	6
BTNT-3120 or 3140 Non-Pauline Literature Elective .....	3
Minor Requirements .....	6
<b>Total</b> .....	<b>30</b>

*Fourth year:*

BTBS-4850 Senior Seminar.....	3
BTHT-4100 Biblical Theology.....	3
BTNT-3130 Pauline Literature.....	3
BTOT-3310 Old Testament 3: Latter Prophets.....	3
Minor Requirements .....	9–11
General Electives .....	2–12
<b>Total</b> .....	<b>33</b>



### Christian Education

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

Course requirements involve 74 semester hours including:

<b>General Education</b> .....	<b>15</b>
BTGE-1720 Spiritual Formation .....	3
BTGE-2730 Old Testament Literature.....	3
BTGE-2740 New Testament Literature .....	3
BTGE-3755 Theology I.....	3
BTGE-3765 Theology II .....	3
<b>Christian Education Core</b> .....	<b>53–55</b>
BTAT-2350 Theological Foundations of Ministry .....	3
BTAT-2400 Personal Evangelism .....	3
BTAT-3410 Discipleship.....	3
BTCM-1000 Orientation to Bible Ministries .....	1
BTCM-2400 Interpreting and Teaching the Bible.....	6
BTCM-3680 Children's Ministries .....	4
BTCM-3700 Campus Ministries.....	4
BTCM-3720 Adult Ministries.....	4
BTCM-4100 Leadership of Christian Education Ministries .....	3
*BTCM-4740 Internship in Christian Ministries .....	3–12
(or BTCM-4750 Internship in Youth Ministry .....	3–12)
BTNT-XXXX New Testament Elective.....	3
BTOT-XXXX Old Testament Elective .....	3
BTPA-XXXX Philosophy Elective (BTPA-2200 recommended).....	3
***BHT-XXXX Theology Elective.....	3
BTX-XXXX Bible Electives (BTPA-3300 recommended).....	0–7

**Select one of the following ministry concentrations .....6**

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

\*Capstone Course

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

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

### Christian Education Curriculum Summary

Proficiency Requirements .....	0–5
General Education Requirements.....	36–44
Christian Education Major Requirements .....	74
Electives .....	10–18
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>



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

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

### *First year:*

BTM-1000 Orientation to Bible Ministries .....	1
BTGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech .....	3
ENG-1400 English Composition .....	3
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to the Humanities .....	3
PEF-1990 Physical Activity and the Christian Life .....	2
Biology Elective .....	3.5
History/Global Awareness Elective .....	3
Physical Science Elective .....	3.5
Social Science Elective .....	3
<b>Total .....</b>	<b>31</b>

### *Second year:*

BTAT-2350 Theological Foundations of Ministry .....	3
BTM-2400 Interpreting and Teaching the Bible .....	6
BTGE-2730 Old Testament Literature .....	3
BTGE-2740 New Testament Literature .....	3
LIT-2XXX Literature Elective .....	3
Ministry Concentration Electives .....	6
Philosophy Elective/Humanities Elective .....	3
Quantitative Elective .....	3
<b>Total .....</b>	<b>30</b>

### *Third year:*

BTAT-2400 Personal Evangelism .....	3
BTAT-3410 Discipleship .....	3
BTM-3680 Children's Ministries .....	4
BTM-3700 Campus Ministries .....	4
BTM-3720 Adult Ministries .....	4
BTGE-3755 Theology I .....	3
BTGE-3765 Theology II .....	3
Electives .....	6
<b>Total .....</b>	<b>30</b>

### *Summer:*

BTM-4740 Internship in Christian Ministries .....	3-12
(or BTM-4750 Internship in Youth Ministry .....	3-12)

### *Fourth year:*

BTM-4100 Leadership of Christian Education Ministries .....	3
Bible Electives .....	0-7
BTNT-XXXX New Testament Elective .....	3
BTOT-XXXX Old Testament Elective .....	3
Theology Elective .....	3
Electives .....	15
<b>Total .....</b>	<b>27-34</b>



**Intercultural Studies — Missiology**

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

*Course requirements involve 21 semester hours of intercultural studies requirements, 45 hours of biblical and theological studies and ministry studies, and 15 to 20 hours of a required minor.*

<b>Intercultural Studies Core Requirements</b> .....	<b>21</b>
<sup>1</sup> ANTH-1800 Cultural Anthropology .....	3
BTPA-2260 World Religions.....	3
BUS-3910 International Business.....	3
<sup>2</sup> HIST-32XX Any regional history .....	3
<sup>3</sup> INTL-3190 Global Issues .....	3
LING-3080 Linguistics for Language Learning .....	3
(or LING-3090 Sociolinguistics .....	3)
POLS-3650 International Relations .....	3
<b>Biblical and Theological Studies Requirements</b> .....	<b>18</b>
BTBS-4310 Hermeneutics.....	3
BTHT-4300 Global Theology .....	3
BTHT-3XXX or 4XXX Theology Elective.....	3
BTNT-3XXX or 4XXX New Testament Electives .....	3
BTOT-3XXX or 4XXX Old Testament Electives.....	3
<sup>4</sup> BTPA-2200 Introduction to Philosophy .....	3
(or BTPA-2250 Ethics.....)	3)
<b>Ministry Studies</b> .....	<b>27</b>
BTAT-2000 Introduction to Mission.....	3
BTAT-2400 Personal Evangelism.....	3
BTAT-2420 History of Mission .....	3
BTAT-3450 Contemporary World Missions.....	3
BTAT-3470 Cross-Cultural Ministry .....	3
BTAT-3510 Introduction to Urban Ministry.....	3
BTAT or BTCM-XXXX Ministry Elective .....	3
*BTAT-4720 Missionary Internship.....	3
BTCM-4100 Leadership of CE Ministries .....	3
<b>Required minor**</b> .....	<b>15-20</b>

<sup>1</sup> Satisfies social science general education requirement.  
<sup>2</sup> Satisfies history general education requirement.  
<sup>3</sup> Satisfies global awareness general education requirement.  
<sup>4</sup> Satisfies humanities general education requirement.  
 \*This is a capstone cross-cultural experience which focuses on the development of the student. It requires a minimum of 10 weeks living in another culture and is usually done between the student's junior and senior year.

**Intercultural Studies — Missiology Major Curriculum Summary**

Proficiency Requirements .....	0-5
Other General Education Requirements.....	42-50
Intercultural Studies Major Requirements.....	66
Required minor** .....	15-20
General Electives .....	0-5
<b>Total (minimum, not including proficiency)</b> .....	<b>128</b>

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

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

<i>First year:</i>	
ANTH-1800 Cultural Anthropology .....	3
BTAT-2000 Introduction to Mission.....	3
BTGE-1720 Spiritual Formation .....	3
BTGE-2730 Old Testament Literature.....	3
COM-1100 Fundamentals of Speech.....	3
ENG-1400 English Composition .....	3
GSS-1100 Politics and American Culture.....	3
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life .....	2
Biological Science Elective.....	3.5
Quantitative Elective.....	3
<b>Total</b> .....	<b>32.5</b>
<i>Second year:</i>	
BTAT-2400 Personal Evangelism.....	3
BTAT-2420 History or Mission.....	3
BTGE-2740 New Testament Literature .....	3
BTGE-3755 Theology I.....	3
BTOT-3XXX or 4XXX Electives.....	3
BTPA-2200 Introduction to Philosophy .....	3
(or BTPA-2250 Ethics .....	3)
BTPA-2260 World Religions.....	3
LIT-2XXX Literature Elective .....	3
Physical Science Elective.....	3.5
Required minor .....	6
<b>Total</b> .....	<b>33.5</b>
<i>Third year:</i>	
BTAT-3470 Cross-Cultural Ministry .....	3
BTAT-3510 Introduction to Urban Ministry.....	3
BTGE-3765 Theology II.....	3
BTNT-3XXX or 4XXX New Testament Elective.....	3
BUS-3910 International Business.....	3
HIST-32XX Regional History.....	3
INTL-3190 Global Issues .....	3
POLS-3650 International Relations .....	3
Required minor .....	6
<b>Total</b> .....	<b>30</b>
<i>Summer:</i>	
BTAT-4720 Missionary Internship .....	3
<i>Fourth year:</i>	
BTAT-3450 Contemporary World Missions.....	3
BTAT/BTCM-XXXX Ministry Elective .....	3
BTBS-4310 Hermeneutics.....	3
BTCM-4100 Leadership of CE Ministries .....	3
BTHT-4300 Global Theology .....	3
BTHT-3XXX or 4XXX Theology Elective.....	3
LING-3080 Linguistics for Language Learning.....	3
(or LING-3090 Sociolinguistics .....	3)
Required minor .....	3
General Electives .....	5
<b>Total</b> .....	<b>29</b>



**Youth Ministries**

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

Course requirements involve 73 semester hours including:

<b>General Education</b> .....	<b>15</b>
BTGE-1720 Spiritual Formation .....	3
BTGE-2730 Old Testament Literature.....	3
BTGE-2740 New Testament Literature .....	3
BTGE-3755 Theology I .....	3
BTGE-3765 Theology II .....	3
<b>Youth Ministries Core</b> .....	<b>58-60</b>
BTAT-2350 Theological Foundations of Ministry .....	3
BTAT-2400 Personal Evangelism .....	3
BTAT-3410 Discipleship.....	3
BTCM-1000 Orientation to Bible Ministries .....	1
BTCM-2200 Introduction to Youth Ministry .....	2
BTCM-2400 Interpreting and Teaching the Bible .....	6
BTCM-3680 Children's Ministries .....	4
BTCM-3700 Campus Ministries.....	4
BTCM-3720 Adult Ministries.....	4
BTCM-4100 Leadership of Christian Educational Ministries ....	3
*BTCM-4750 Internship in Youth Ministry .....	3-12
BTHT-XXXX Theology Elective.....	3
BTNT-XXXX New Testament Elective .....	3
BTOT-XXXX Old Testament Elective .....	3
BTPA-XXXX Philosophy Elective (BTPA-2200 recommended).....	3
BTXX-XXXX Bible electives (BTPA-3300 recommended) ....	0-7
<b>Select one ministry elective from the following:</b> .....	<b>3</b>
BTAT-2920 Scriptural Interpretations of Gender Issues and Roles.....	3
BTAT-3480 Women's Communication for Ministry .....	3
BTAT-3510 Introduction to Urban Ministry .....	3
BTCM-2100 Wilderness Ministry.....	3
BTCM-3510 Small Group Ministry .....	3
ESSE-2810 Introduction to Camping .....	2

\*Capstone Course

**Youth Ministries Major Curriculum Summary**

Proficiency Requirements.....	0-5
General Education Requirements.....	36-44
Youth Ministries Major Requirements .....	73
Electives .....	11-19
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

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

*First year:*

BTCM-1000 Orientation to Bible Ministries .....	1
BTCM-2200 Introduction to Youth Ministry .....	2
BTGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
GSS-1100 Politics and American Culture.....	3
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life .....	2
Biology Elective .....	3.5
Physical Science Elective.....	3.5
Quantitative Elective.....	3
<b>Total .....</b>	<b>30</b>

*Second year:*

BTAT-2400 Personal Evangelism .....	3
BTAT-2350 Theological Foundation of Ministry.....	3
BTCM-2400 Interpreting and Teaching the Bible .....	6
BTGE-2730 Old Testament Literature.....	3
BTGE-2740 New Testament Literature .....	3
BTPA-XXXX Philosophy Elective/Humanities Elective .....	3
History/Global Awareness Elective .....	3
LIT-2XXX Literature Elective .....	3
Social Science Elective .....	3
<b>Total .....</b>	<b>30</b>

*Third year:*

BTAT-3410 Discipleship .....	3
BTCM-3680 Children's Ministries .....	4
BTCM-3700 Campus Ministries.....	4
BTCM-3720 Adult Ministries.....	4
BTGE-3755 Theology I.....	3
BTGE-3765 Theology II.....	3
BTOT-XXXX Old Testament Elective .....	3
Electives .....	10
<b>Total .....</b>	<b>34</b>

*Summer:*

BTCM-4750 Internship in Youth Ministry .....	3-12
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*Fourth year:*

BTCM-4100 Leadership of Christian Educational Ministries .....	3
BTHT-XXXX Theology Elective.....	3
BTNT-XXXX New Testament Elective .....	3
BEXX-XXXX Ministry Elective .....	3
Bible Electives .....	0-7
Electives .....	10-12
<b>Total .....</b>	<b>22-31</b>





### 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:*

<b>General Education</b> .....	<b>15</b>
BTGE-1720 Spiritual Formation .....	3
BTGE-2730 Old Testament Literature.....	3
BTGE-2740 New Testament Literature .....	3
BTGE-3755 Theology I.....	3
BTGE-3765 Theology II .....	3
BTNT-XXXX New Testament Electives .....	6
BTOT-XXXX Old Testament Electives.....	3
BTPA-XXXX Philosophy Elective.....	3
<b>Other Bible Electives</b> .....	<b>7</b>

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

### Minors

#### Bible Minor

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

BTGE-1720 Spiritual Formation .....	3
BTGE-2730 Old Testament Literature.....	3
BTGE-2740 New Testament Literature .....	3
BTGE-3755 Theology I.....	3
BTGE-3765 Theology II .....	3

#### Biblical Care and Counseling Minor

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

BTAT-3400 Biblical Care, Discipleship, and Counseling.....	3
BTAT-3430 Ministerial 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 .....	3
PYCH-3701 Counseling Adolescents .....	3
PYCH-4700 Counseling Children .....	3

#### Bible Teacher Education Minor

The **Bible teacher education minor** involves 18 semester hours of course work for the student who wishes to enter the Christian school classroom and teach Bible. These courses include:

EDSE-4100 Principles of Teaching: Adolescent/Young Adult.....	5
EDSE-4450 Adolescent/Young Adult Clinical Experience.....	3
EDSP-4250 Communication, Collaboration and Inclusion.....	2
EDUC-3100 Philosophical Foundations of Education .....	3
EDUC-4910 Special Student Teaching .....	5

### Christian Ministry Minor

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

BTCM-2400 Interpreting and Teaching the Bible.....	6
--	---

#### Choose one from the following.....4

BTCM-3680 Children's Ministries.....	4
BTCM-3700 Campus Ministries.....	4
BTCM-3720 Adult Ministries .....	4

#### Choose one from the following.....3

BTAT-2000 Introduction to Mission .....	3
BTAT-2400 Personal Evangelism .....	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

### 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 15–17 semester hours of elementary and intermediate Greek. These courses include

BTBL-2510, 2520 Elementary Greek I and II.....	8
BTBL-3510, 3520 Intermediate Greek I and II .....	6
BTBL-4110 Greek Syntax and Exegesis .....	3
or BTBL-4510 Reading in New Testament Greek.....	1

### Mission Minor

The **mission minor** for the student interested in cross-cultural ministries involves 15 semester hours including:

BTAT-2000 Introduction to Mission.....	3
BTAT-3450 Contemporary World Missions.....	3
BTAT-3470 Cross-Cultural Ministry .....	3

#### At least 6 hours selected from.....6

BTAT-2400 Personal Evangelism .....	3
BTAT-2420 History of Mission.....	3
BTAT-3410 Discipleship.....	3
BTAT-3510 Introduction to Urban Ministry .....	3
BTHT-4300 Global Theology.....	3
BTPA-2260 World Religions .....	3
BTPA-3400 Current Religious Movements.....	3

### Pastoral Ministry Minor

The **pastoral ministry minor** involves 16–17 semester hours of course work for the student interested in pastoral ministries. These courses include:

BTAT-2000 Introduction to Mission.....	3
or BTAT-2400 Personal Evangelism .....	3
BTAT-3420 Introduction to Pastoral Ministry .....	2
BTAT-3430 Ministerial 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- 2920 Scriptural Interpretations of Gender Issues and Roles.....	3
BTAT-3410 Discipleship.....	3
BTAT-3510 Introduction to Urban Ministry .....	3
BTAT-4710 Ministry Internship.....	2-3

## Philosophy and Theology Minor

The **philosophy and theology minor** involves 15 semester hours of course work 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-3300 Christian Evidences and Apologetics .....	3
BTHT-4320 Contemporary Theology .....	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-2610 Elementary Hebrew I .....	3
BTBL-2620 Elementary Hebrew II .....	3

### One course selected from.....3

BTPA-2250 Ethics .....	3
BTBS-4310 Hermeneutics .....	3
BTHT-XXXX Theology Electives .....	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:

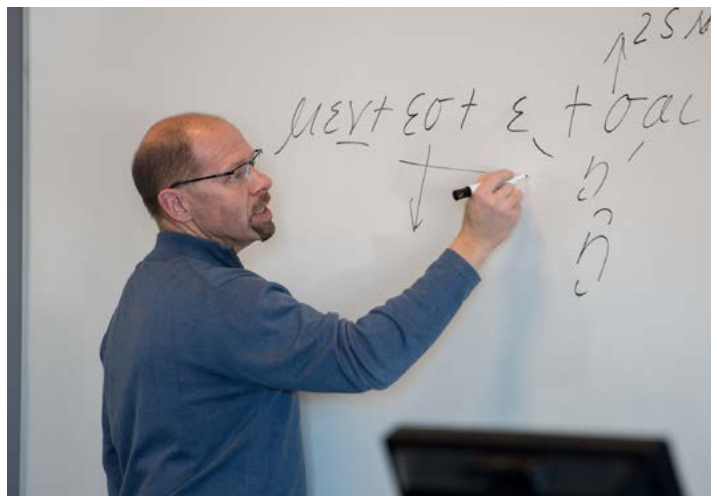
BTCM-3520 Counseling and Mentoring Women .....	3
BTCM-3530 Contemporary Ministry to Women and Girls .....	3
BTAT-3480 Women's Communication for Ministry .....	3
or BTHT-3750 Historical Theology of Womanhood .....	3
BTHT-3740 Biblical Theology of Womanhood .....	3
BTAT-2400 Personal Evangelism .....	3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

## Youth Ministry Minor

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

BTCM-2200 Introduction to Youth Ministry .....	2
BTCM-2400 Interpreting and Teaching the Bible .....	6
BTCM-3700 Campus Ministries .....	4
<b>Select one from the following.....</b>	<b>3</b>

BTAT-2000 Introduction to Mission .....	3
BTAT-2400 Personal Evangelism .....	3
BTAT-3410 Discipleship .....	3
BTCM-3530 Contemporary Ministry to Women and Girls .....	3
BTCM-4750 Internship in Youth Ministries .....	3
BTCM-4990 Topics in Christian Education .....	3





# School of Business Administration

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## Mission Statement

The mission of the Cedarville University School of Business Administration is to develop business professionals who will influence their organizations through excellence and a biblical 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 School of Business Administration is accredited by the Accreditation Council for Business Schools and Programs (ACBSP).



## Personal Requirements

A college preparatory curriculum in high school provides the best preparation for the bachelor's degree programs in the School of Business Administration. Three or four years of high school mathematics, including calculus, are recommended for students anticipating study in business. No previous course work in business is necessary. Because of extensive computer utilization in the business curriculum, electives in computer programming or software packages may prove to be helpful.

## School Requirements

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

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

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

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

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

## Programs of Study

The School of Business Administration offers the following programs:

### Majors

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| • Accounting                      | • Information Technology Management |
| • Economics — Bachelor of Arts    | • Management                        |
| • Economics — Bachelor of Science | • Marketing                         |
| • Finance                         | • Sport Business Management         |
| • Global Business                 |                                     |

### Minors

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

## Cocurricular Opportunities

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

### Accounting Society

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

### Association of Information Technology Professionals

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

### Delta Mu Delta

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

## Financial Management Association

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

## Human Resource Management

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

## Enactus

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

## Women in Business

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

## Career Opportunities

### Accounting Major

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

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

### Finance Major

Finance focuses on the financial decisions faced by business enterprises. This includes methods of raising money, debt management, investment and security analysis, real estate and insurance, and virtually all aspects of finance. The finance major prepares individuals for careers as:

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

### Global Economics and International Business Major

Global Economics and International Business (GEIB) is an interdisciplinary program that prepares business students to operate in a multicultural and global marketplace. Careers in international business include working as business professionals in a(n):

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

### Information Technology Management Major

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

systems major prepares individuals for careers as:

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

### Management Major

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

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

### Marketing Major

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

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

### Sport Business Management Major

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

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

## Faculty

**Jeffrey Haymond**, Dean; Associate Professor of Economics. *Education*: B.S., United States Air Force Academy, 1985; M.S., University of Tennessee, 1989; M.A., University of Denver, 1997; Ph.D., George Mason University, 2001. At Cedarville since 2010.

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

**Daniel Sterkenburg**, Assistant Dean Graduate Programs; Associate Professor of Business and Management. *Education*: B.S., Calvin College, 1977; M.P.H., University of Michigan School of Public Health, 1999; M.B.A., Wright State University, 1990; D.B.A., Anderson University, 2013. At Cedarville since 2010.

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

**Jon Austin**, Associate Professor of Marketing. *Education:* B.A., University of Northern Iowa, 1982; M.S., Iowa State University, 1989; Ph.D., University of Wisconsin-Madison, 1997. At Cedarville since 2001.

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

**John Delano**, Associate Professor of Information Technology Management. *Education:* B.S., Maranatha Baptist Bible College, 1996; M.S., University of Wisconsin-Whitewater, 2001; Ph.D., University of Wisconsin-Milwaukee, 2011. At Cedarville since 2008.

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

**Charles Hartman**, Associate Professor of Business Law and Accounting. *Education:* B.A., Michigan State University, 1984; M.B.A., Michigan State University, 1984; J.D., University of Dayton School of Law, 1997. At Cedarville since 1989.

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

**Loren Reno**, *Vice President for Academics (Interim)*; Professor of Management. *Education:* B.A., Cedarville University, 1970; M.S., University of Southern California, 1981. At Cedarville since 2012.

**Anne Rich**, Associate Professor of Accounting. *Education:* B.A., Cedarville University, 1978; M.S., University of Central Florida, 1978; C.P.A., State of Florida, 1979. At Cedarville since 2000.

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

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

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

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

**Phoebe Tsai**, Assistant Professor of Information Technology Management. *Education:* B.B.A., National Chengchi University, 1997; M.B.A., National Chengchi University, 2000; Ph.D., University of Western Ontario, 2010. At Cedarville since 2013.

**Bert Wheeler**, Professor of Economics. *Education:* B.S., University of Tennessee, 1981; M.A., University of Tennessee, 1984; Ph.D., University of Tennessee, 1985. At Cedarville since 1992.

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

## Emeriti

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

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

## Integrated Business Core (IBC)

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

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

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

## Advisory Council

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

Board members include:

*Ms. Elizabeth Arch, Alegent Creighton Health*  
*Mr. Harry Badanes, J.D. Cloud & Co. LLP*  
*Mr. Ronald Baker, Executive Management Consulting*  
*Mr. Devin Cheek, Rolls Royce*  
*Dr. Jan Conway, Retired Dean, School of Nursing*  
*Mr. Mike Crawford, College For Less, Inc.*  
*Mr. Louie D'Amico, America Flavors (Givaudan Flavors Corp)*  
*Mr. David Gneiser, Fond duLac Bumper Exchange*  
*Ms. Lori Greenawalt, KPMG*  
*Mr. Michael D. Greenwood, Huntington Bank*  
*Mr. George Guritz, Guritz Investments, Ltd.*  
*Mr. Gary Habegger, Executive Consultant, Benefits Admin*  
*Mr. Ronald Heineman, Diversified Venture Funds*  
*Mr. Mark Horne, Plymouth Venture Partners*  
*Dr. Rajshekhar Javalgi, Cleveland State University*  
*Mr. Brian Learst, Quint Events*  
*Dr. Scott MacKenzie, Indiana University Bloomington*  
*Mr. Delmar Mohler, Faith Community Foundation*  
*Mr. Jeffrey Montie, Kellogg Company*  
*Mr. Jason Ramsey, Chick-fil-A*  
*Mr. Lorne Scharnberg, KATECHO, Inc*  
*Mr. Travis Smith, Vitwaste*  
*Mr. Nick Wallace, CapinCrouse*  
*Mr. Randy Wilcox, Otis Elevator Company*  
*Mr. Greg Winchester, TriMont Real Estate Advisors*  
*Mr. Dan Young, Young's Dairy*

## Accounting

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

Course requirements involve 69 semester hours including:

ACCT-2110 Principles of Accounting I.....	3
ACCT-2120 Principles of Accounting II .....	3
ACCT-3110 Intermediate Financial Accounting I.....	3
ACCT-3120 Intermediate Financial Accounting II.....	3
ACCT-3150 Accounting Information Systems .....	3
ACCT-3170 Managerial Accounting .....	3
ACCT-4110 Federal Income Tax.....	3
ACCT-4120 Auditing.....	3
BUS-1000 The Business Profession.....	2
BUS-2150 Statistics for Business .....	3
BUS-2180 Business Law .....	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
FIN-3710 Principles of Finance.....	3
ITM-1500 Information Technology for Business.....	2
ITM-1510 Software Tools for Business.....	2
MGMT-3500 Principles of Organization and Management .....	3
*MGMT-4510 Strategic Management.....	3
MRKT-3600 Principles of Marketing .....	3
<b>Accounting electives selected from the following .....</b>	<b>9</b>
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

<b>Required Cognate.....</b>	<b>3</b>
GMTH-1020 College Algebra.....	3
(Satisfies quantitative requirement for general education core.)	

### Accounting Major Curriculum Summary

Proficiency Requirements.....	0–5
General Education Requirements.....	48–56
Accounting Major Requirements.....	69
Required Cognate.....	3
Electives .....	0–8
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

The **CPA concentration** reflects the state of Ohio requirements of 150 semester hours of undergraduate or graduate education, including 30 hours of accounting courses combined with several specific business and elective courses. Students desiring to pursue a license in other states should investigate the requirements of those specific states. States with websites, and all addresses, can be found on the website of the National Association of State Board of Accountancy at [nasba.org](http://nasba.org).

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

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

Although not specifically required by the state of Ohio, the following courses include materials that are covered in the CPA exam and are recommended for all accounting majors preparing to take the CPA exam. Several of these courses are required by other states.

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

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

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

#### First year:

BTGE-1720 Spiritual Formation .....	3
BUS-1000 The Business Profession.....	2
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
GMTH-1020 College Algebra.....	3
GSS-1100 Politics and American Culture.....	3
HUM-1400 Introduction to the Humanities.....	3
ITM-1500 Information Technology for Business.....	2
ITM-1510 Software Tools for Business.....	2
Biological Science Elective .....	3.5
LIT-2XXX Literature Elective .....	3
Physical Science Elective .....	3.5
<b>Total .....</b>	<b>34</b>

#### 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 .....	3
ECON-2330 Microeconomics .....	3
ECON-2340 Macroeconomics .....	3
PEF-1990 Physical Activity and the Christian Life .....	2
Social Science Elective .....	3
Electives .....	3
<b>Total .....</b>	<b>32</b>

#### Third year:

ACCT-3110 Intermediate Financial Accounting I.....	3
ACCT-3120 Intermediate Financial Accounting II .....	3
ACCT-3150 Accounting Information Systems .....	3
ACCT-3170 Managerial Accounting .....	3
BTGE-3755 Theology I.....	3
BTGE-3765 Theology II .....	3
BUS-3000 The Business Experience .....	1
BUS-3910 International Business.....	3
FIN-3710 Principles of Finance.....	3
MGMT-3500 Principles of Organization and Management .....	3
MRKT-3600 Principles of Marketing .....	3
<b>Total .....</b>	<b>31</b>

#### Fourth year:

ACCT-4110 Federal Income Taxes.....	3
ACCT-4120 Auditing.....	3
BUS-4420 Business Ethics and Social Responsibility.....	2
MGMT-4510 Strategic Management.....	3
History Elective.....	3
Humanities Elective .....	3
Accounting Electives .....	9
Electives .....	5
<b>Total .....</b>	<b>31</b>

**Economics — Bachelor of Arts**

Although approved by the Cedarville University faculty and trustees, the Bachelor of Arts degree program in Economics was still under review by the Ohio Board of Regents at the time of this publication. For this reason, the requirements for this program are listed in this catalog for information only. Final approval from the Ohio Board of Regents must be received before students may officially declare this academic program. Please refer to the online catalog for confirmation of the current status of this program of study.

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

Course requirements involve 68 semester hours including:

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

**Economics concentrations selected from .....24**

*Business Economics concentration*

BUS-3150 Operations Analysis.....	3
ECON-3310 Money and Financial Markets.....	3
ECON-3350 Comparative Economic Systems.....	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-3630 Congress.....	3
POLS-3690 Public Policy.....	3
POLS-3730 American Political Thought.....	3
POLS-4630 American Constitutional Law.....	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 II.....	3
Select one of the following.....	3
ECON-3310 Money and Financial Markets.....	3
ECON-3360 International Trade Economics.....	3
ECON-3380 Economic Development and Political Economy.....	3

Select one of the following.....	3
POLS-3630 Congress.....	3
POLS-3690 Public Policy.....	3
POLS-3730 American Political Thought.....	3
POLS-4630 American Constitutional Law.....	3

\*Capstone Course

**Required Cognate.....3**

GMTH-1020 College Algebra.....	3
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(Satisfies quantitative requirement for general education core.)

**Economics — B.A. Major Curriculum Summary**

Proficiency Requirements.....	0–5
General Education Requirements.....	45–53
Economics Major Requirements.....	68
Required Cognate.....	3
Electives.....	4–12
<b>Total (minimum, not including proficiency).....</b>	<b>128</b>

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

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

*First year:*

BTGE-1720 Spiritual Formation.....	3
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
GMTH-1020 College Algebra.....	3
GSS-1100 Politics and American Culture.....	3
HUM-1400 Introduction to the Humanities.....	3
ITM-1510 Software Tools for Business.....	2
Biological Science Elective.....	3.5
Physical Science Elective.....	3.5
Humanities Elective.....	3
General Elective.....	3
<b>Total.....</b>	<b>33</b>

*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-2180 Business Law.....	3
ECON-2330 Microeconomics.....	3
ECON-2340 Macroeconomics.....	3
GSS-3650 Quantitative Methodology.....	3
PEF-1990 Physical Activity and the Christian Life.....	2
LIT-2XXX Literature Elective.....	3
Concentration Elective.....	3
<b>Total.....</b>	<b>32</b>

*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
<b>Total.....</b>	<b>33</b>

*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
<b>Total.....</b>	<b>30</b>



**Economics — Bachelor of Science**

Although approved by the Cedarville University faculty and trustees, the Bachelor of Science degree program in economics was still under review by the Ohio Board of Regents at the time of this publication. For this reason, the requirements for this program are listed in this catalog for information only. Final approval from the Ohio Board of Regents must be received before students may officially declare this academic program. Please refer to the online catalog for confirmation of the current status of this program of study.

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

Course requirements involve 68 semester hours including:

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

**Economics concentrations selected from .....24**

*Business Economics concentration*

BUS-3150 Operations Analysis .....	3
ECON-3310 Money and Financial Markets.....	3
ECON-3350 Comparative Economic Systems.....	3
ECON-3360 International Trade Economics .....	3
ECON-3375 Mathematical Economics .....	3
ECON-3380 Economic Development and Political Economy .....	3
ECON-3410 Special Topics in Political Economy .....	3
ECON-4110 Introduction to Econometrics .....	3

*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 Special Topics in Political Economy .....	3
POLS-3630 Congress .....	3
POLS-3730 American Political Thought .....	3
POLS-4640 American Constitutional Law .....	3

\*Capstone Course

**Required Cognate.....3**

MATH-1710 Calculus I .....	5
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(Satisfies quantitative requirement for general education core.)

**Economics — B.S. Major Curriculum Summary**

Proficiency Requirements.....	0–5
General Education Requirements.....	43–51
Economics Major Requirements.....	68
Required Cognate.....	5
Electives .....	4–12
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

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

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

*First year:*

BTGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
GSS-1100 Politics and American Culture.....	3
HUM-1400 Introduction to the Humanities.....	3
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
<b>Total .....</b>	<b>32</b>

*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-2180 Business Law .....	3
ECON-2330 Microeconomics .....	3
ECON-2340 Macroeconomics.....	3
GSS-3650 Quantitative Methodology .....	3
PEF-1990 Physical Activity and the Christian Life .....	2
LIT-2XXX Literature Elective .....	3
General Elective .....	3
<b>Total .....</b>	<b>32</b>

*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
<b>Total .....</b>	<b>33</b>

*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
<b>Total .....</b>	<b>31</b>

**Finance**

The **finance major** falls under the Bachelor of Arts degree and prepares students for careers as financial analysts, security analysts, financial planners, or account executives within the banking, insurance, and securities industries and other commercial concerns.

Course requirements involve 63 semester hours including:

ACCT-2110 Principles of Accounting I.....	3
ACCT-2120 Principles of Accounting II .....	3
BUS-1000 The Business Profession.....	2
BUS-2150 Statistics for Business .....	3
BUS-2180 Business Law .....	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
FIN-3310 Money and Financial Markets .....	3
FIN-3710 Principles of Finance.....	3
FIN-3730 Investments .....	3
FIN-4770 Advanced Financial Management.....	3
MGMT-3500 Principles of Organization and Management .....	3
*MGMT-4510 Strategic Management.....	3
ITM-1500 Information Technology for Business.....	2
ITM-1510 Software Tools for Business.....	2
MRKT-3600 Principles of Marketing .....	3

**Finance Electives selected from .....9**

ACCT-3110 Intermediate Financial Accounting I .....	3
FIN-3750 International Finance .....	3
FIN-3760 Financial Planning.....	3
FIN-3770 Security Analysis .....	3
FIN-4715 Applied Portfolio Management (requires three one-hour credits) .....	3
FIN-4750 Financial Institution Management .....	3

\*Capstone Course

**Required Cognate.....3**

GMTH-1020 College Algebra.....	3
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(Satisfies quantitative requirement for general education core.)

**Finance Major Curriculum Summary**

Proficiency Requirements.....	0–5
General Education Requirements.....	48–56
Finance Major Requirements.....	63
Required Cognate.....	3
Electives .....	6–14
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

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

*First year:*

BTGE-1720 Spiritual Formation .....	3
BUS-1000 The Business Profession.....	2
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
GMTH-1020 College Algebra.....	3
GSS-1100 Politics and American Culture.....	3
HUM-1400 Introduction to the Humanities.....	3
ITM-1500 Information Technology for Business.....	2
ITM-1510 Software Tools for Business.....	2
Biological Science Elective.....	3.5
Physical Science Elective.....	3.5
<b>Total .....</b>	<b>31</b>

*Second year:*

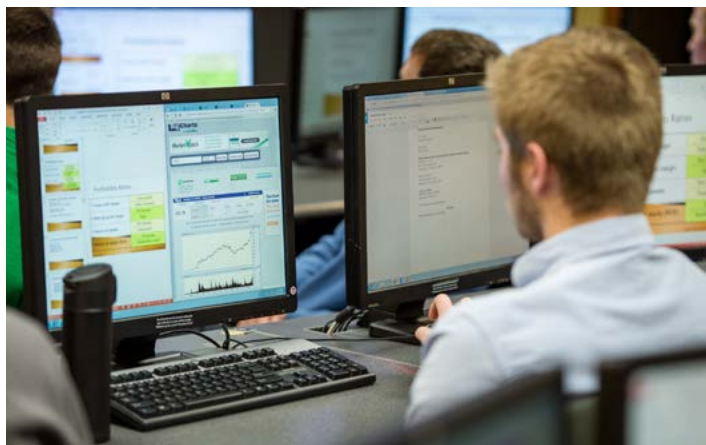
ACCT-2110 Principles of Accounting I.....	3
ACCT-2120 Principles of Accounting II .....	3
BTGE-2730 Old Testament Literature.....	3
BTGE-2740 New Testament Literature .....	3
BUS-2150 Statistics for Business .....	3
BUS-2180 Business Law .....	3
ECON-2330 Microeconomics .....	3
ECON-2340 Macroeconomics.....	3
PEF-1990 Physical Activity and the Christian Life .....	2
History Elective.....	3
Social Science Elective .....	3
<b>Total .....</b>	<b>32</b>

*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-3710 Principles of Finance.....	3
FIN-3730 Investments .....	3
MGMT-3500 Principles of Organization and Management .....	3
MRKT-3600 Principles of Marketing .....	3
Humanities Elective .....	3
Finance Electives .....	3
<b>Total .....</b>	<b>34</b>

*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
<b>Total .....</b>	<b>31</b>



**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 81–82 hours, including:

<b>Global Studies core</b> .....	<b>15</b>
ANTH-1800 Cultural Anthropology .....	3
BTPA-2260 World Religions.....	3
BUS-3910 International Business.....	3
COM-2140 Intercultural Communication.....	3
INTL-3190 Global Issues .....	3
<b>Global Studies Area focus (choose one)</b> .....	<b>16–17</b>
<i>Area Studies — Asia</i>	
**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 Asia .....	3
LIT-3460 Contemporary East Asian Literature .....	3
<i>Area Studies — Latin America</i>	
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
<i>Area Studies — Middle East</i>	
**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
<i>Area Studies — Western Europe</i>	
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
<b>Global Business core</b> .....	<b>39</b>
ACCT-2110 Principles of Accounting I.....	3
ACCT-2120 Principles of Accounting II .....	3
BUS-1000 The Business Profession.....	2
BUS-2150 Statistics for Business .....	3
BUS-2180 Business Law I.....	3
BUS-3000 The Business Experience .....	1
BUS-4420 Business Ethics and Social Responsibility.....	2
ECON-2330 Microeconomics .....	3
ECON-2340 Macroeconomics.....	3
FIN-3710 Principles of Finance.....	3
ITM-1500 Information Technology for Business.....	2
ITM-1510 Software Tools for Business.....	2
MGMT-3500 Principles of Organization and Management .....	3
*MGMT-4510 Strategic Management.....	3
MRKT-3600 Principles of Marketing .....	3
<b>Global Business concentration (choose one)</b> .....	<b>12</b>
<i>Accounting concentration</i>	
ACCT-3110 Intermediate Financial Accounting I .....	3
ACCT-3120 Intermediate Financial Accounting II .....	3
ACCT-3170 Managerial Accounting .....	3
ACCT-4220 International Accounting .....	3
<i>Economics concentration</i>	
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

*Entrepreneurship concentration*

MGMT-3511 Entrepreneurship and Small Business Strategy	3
MGMT-3512 Entrepreneurship and Small Business Finance	3
MGMT-3570 International Management .....	3
MRKT-4620 International Marketing .....	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

*Management concentration*

MGMT-3530 Human Resources Management.....	3
MGMT-3550 Organizational Behavior .....	3
MGMT-3570 International Management .....	3
MGMT-4550 Applied Leadership.....	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 Marketing 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 School of Business Associate Dean. This requirement is generally not fulfilled by travel overseas or minimum Missions Involvement Services experience.

**Required Cognate.....3**

GMTH-1020 College Algebra.....	3
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(Satisfies quantitative requirement for general education core.)

**Global Business Curriculum Summary:**

Proficiency Requirements .....	0–5
Other General Education Requirements.....	39
Global Studies Requirements.....	31–32
Global Business Requirements .....	51
Required Cognate.....	3
General Electives .....	3–4
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

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

## Suggested Four-Year Curriculum for a Major in Global Business

### *First year:*

ANTH-1800 Cultural Anthropology .....	3
BTGE-1720 Spiritual Formation .....	3
BTGE-2730 Old Testament Literature.....	3
BUS-1000 The Business Profession.....	2
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition .....	3
GMTH-1020 College Algebra.....	3
GSS-1100 Politics and American Culture.....	3
HUM-1400 Introduction to the Humanities.....	3
ITM-1500 Information Technology for Business.....	2
ITM-1510 Software Tools for Business.....	2
Biology Elective .....	3.5
<b>Total .....</b>	<b>33.5</b>

### *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
COM-2140 Intercultural Communication.....	3
ECON-2330 Microeconomics .....	3
PEF-1990 Physical Activity and the Christian Life .....	2
MRKT-3600 Principles of Marketing .....	3
Global Studies Area Focus .....	3
LIT-2XXX Literature Elective .....	3
<b>Total .....</b>	<b>35</b>

### *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
<b>Total.....</b>	<b>30</b>

### *Fourth year:*

BUS-2180 Business Law.....	3
BUS-3910 International Business.....	3
INTL-3190 Global Issues .....	3
MGMT-4510 Strategic Management.....	3
Global Studies Area Focus .....	5
Global Studies Concentration Requirements.....	9
Physical Science Elective .....	3.5
<b>Total .....</b>	<b>29.5</b>



### Information Technology Management

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

Course requirements involve 69 semester hours including:

ACCT-2110 Principles of Accounting I.....	3
ACCT-2120 Principles of Accounting II.....	3
BUS-1000 The Business Profession.....	2
BUS-2150 Statistics for Business.....	3
BUS-2180 Business Law.....	3
BUS-3000 The Business Experience.....	1
BUS-3910 International Business.....	3
BUS-4420 Business Ethics and Social Responsibility.....	2
ECON-2330 Microeconomics.....	3
FIN-3710 Principles of Finance.....	3
ITM-1500 Information Technology for Business.....	2
ITM-1510 Software Tools for Business.....	2
ITM-1900 Fundamentals of IT Management.....	3
ITM-2100 Database Management.....	3
ITM-2300 Introduction to Programming.....	3
ITM-3400 Data Communications and Networking.....	3
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 Track (choose one of the following tracks)..... 12**

**Application Developer Track..... 12**

ITM-3300 Advanced Topics in Programming Languages...3
ITM-3450 IT Security and Risk Management.....3
ITM-3500 Web Development.....3
ITM-4500 System Development.....3

**Business Analyst Track..... 12**

ITM-3600 Business Process Management.....3
ITM-3650 Enterprise Systems.....3
ITM-4100 Advanced Database Design.....3
ITM-4450 IT Audit and Controls.....3

**Database Administrator Track..... 12**

ITM-3450 IT Security and Risk Management.....3
ITM-3650 Enterprise Systems.....3
ITM-4100 Advanced Database Design.....3
ITM-4450 IT Audit and Controls.....3

**Network Administrator Track..... 12**

ITM-3450 IT Security and Risk Management.....3
ITM-4450 IT Audit and Controls.....3
ITM-3XXX or higher electives.....6

**IT/Project Management Track..... 12**

ITM-3600 Business Process Management.....3
ITM-4450 IT Audit and Controls.....3
ITM-3XXX or higher electives.....6

**IT Consultant Track..... 12**

ITM-3600 Business Process Management.....3
ITM-3XXX or higher electives.....9

\*Capstone Course

**Required Cognate..... 3**

GMTH-1020 College Algebra..... 3
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(Satisfies quantitative requirement for general education core.)

### Information Technology Management Major Curriculum Summary

Proficiency Requirements.....	0-5
General Education Requirements.....	48-56
Information Systems Major Requirements.....	69
Required Cognate.....	3
Electives.....	0-8
<b>Total (minimum, not including proficiency).....</b>	<b>128</b>

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

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

*First year:*

BTGE-1720 Spiritual Formation.....	3
BUS-1000 The Business Profession.....	2
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
GMTH-1020 College Algebra.....	3
GSS-1100 Politics and American Culture.....	3
HUM-1400 Introduction to the Humanities.....	3
ITM-1500 Information Technology for Business.....	2
ITM-1510 Software Tools for Business.....	2
ITM-1900 Fundamentals of IT Management.....	3
Humanities Elective.....	3
<b>Total.....</b>	<b>30</b>

*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.....	3
ITM-2100 Database Management.....	3
ITM-2300 Introduction to Programming.....	3
PEF-1990 Physical Activity and the Christian Life.....	2
Biological Science Elective.....	3.5
Social Science Elective.....	3
<b>Total.....</b>	<b>32.5</b>

*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 Track Electives.....	6
<b>Total.....</b>	<b>34</b>

*Fourth year:*

BUS-4420 Business Ethics and Social Responsibility.....	2
ITM-4400 Systems Analysis and Design.....	3
ITM-4900 IT Strategy.....	3
ITM Track Electives.....	6
History Elective.....	3
LIT-2XXX Literature Elective.....	3
Physical Science Elective.....	3.5
Electives.....	8
<b>Total.....</b>	<b>31.5</b>

## Management

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

Course requirements involve 69 semester hours including:

ACCT-2110 Principles of Accounting I.....	3
ACCT-2120 Principles of Accounting II .....	3
BUS-1000 The Business Profession.....	2
BUS-2100 Business Communication.....	3
BUS-2150 Statistics for Business .....	3
BUS-2180 Business Law .....	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
FIN-3710 Principles of Finance.....	3
ITM-1500 Information Technology for Business.....	2
ITM-1510 Software Tools for Business.....	2
MGMT-3500 Principles of Organization and Management .....	3
MGMT-3560 Project Management.....	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 Operations elective from the following.....	3
MGMT-3520 Production and Operations Management.....	3
MGMT-4540 Service Operations Management.....	3

**Management Electives Tracks – choose one ..... 9**

**Human Resource Management Track ..... 9**

MGMT-3530 Human Resource Management .....	3
MGMT-3580 Compensation and Benefits Management .....	3
MGMT-4530 Industrial Relations Management.....	3

**Operations Management Track..... 9**

ITM-3600 Business Process Management .....	3
MGMT-4520 Supply Chain Management .....	3
MGMT-4570 Total Quality Management.....	3

\*Capstone Course

**Required Cognate..... 3**

GMTH-1020 College Algebra.....	3
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(Satisfies quantitative requirement for general education core.)

**Management Major Curriculum Summary**

Proficiency Requirements.....	0–5
General Education Requirements.....	48–56
Management Major Requirements .....	69
Required Cognate.....	3
Electives .....	0–8
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

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

*First year:*

BTGE-1720 Spiritual Formation .....	3
BUS-1000 The Business Profession.....	2
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
GMTH-1020 College Algebra.....	3
GSS-1100 Politics and American Culture.....	3
HUM-1400 Introduction to the Humanities.....	3
ITM-1500 Information Technology for Business.....	2
ITM-1510 Software Tools for Business.....	2
PEF-1990 Physical Activity and the Christian Life .....	2
History Elective.....	3
Physical Science Elective.....	3.5
<b>Total .....</b>	<b>32.5</b>

*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-2100 Business Communication.....	3
BUS-2150 Statistics for Business .....	3
BUS-2180 Business Law .....	3
ECON-2330 Microeconomics .....	3
ECON-2340 Macroeconomics .....	3
PWID-3010 Style and Mechanics for Writers .....	3
<b>Total .....</b>	<b>30</b>

*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-3710 Principles of Finance.....	3
MGMT-3500 Principles of Organization and Management .....	3
MGMT-3520 Production and Operations Management .....	3
(or MGMT-4540 Service Operations Management.....)	3
MRKT-3600 Principles of Marketing .....	3
Biological Science Elective.....	3.5
LIT-2XXX Literature Elective.....	3
<b>Total .....</b>	<b>31.5</b>

*Fourth year:*

BUS-4420 Business Ethics and Social Responsibility.....	2
MGMT-3560 Project Management.....	3
MGMT-4510 Strategic Management.....	3
MGMT-4550 Applied Leadership .....	3
Management Electives Track.....	9
Humanities Elective .....	3
Social Science Elective .....	3
Electives .....	0–8
<b>Total .....</b>	<b>34</b>

## 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-1000 The Business Profession.....	2
BUS-2150 Statistics for Business .....	3
BUS-2180 Business Law .....	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
FIN-3710 Principles of Finance.....	3
ITM-1500 Information Technology for Business.....	2
ITM-1510 Software Tools for Business.....	2
MGMT-3500 Principles of Organization and Management .....	3
*MGMT-4510 Strategic Management.....	3
MRKT-3600 Principles of Marketing .....	3
MRKT-3630 Marketing Research .....	3
MRKT-3650 Consumer Behavior .....	3
MRKT-4610 Marketing Strategy .....	3
Marketing electives selected from the following: .....	12
BUS-3514 Entrepreneurial Ventures in E-commerce .....	3
MRKT-3610 Sales/Sales Management Systems .....	3
MRKT-3660 Integrated Marketing Communications.....	3
MRKT-3670 Business to Business Marketing .....	3
MRKT-3680 Nonprofit Marketing .....	3
MRKT-3690 Services Marketing .....	3
MRKT-4620 International Marketing .....	3

\*Capstone Course

<b>Required Cognate.....</b>	<b>3</b>
GMTH-1020 College Algebra.....	3
(Satisfies quantitative requirement for general education core.)	

### Marketing Major Curriculum Summary

Proficiency Requirements .....	0–5
General Education Requirements.....	48–56
Marketing Major Requirements.....	63
Required Cognate.....	3
Electives .....	6–14
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

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

### First year:

BTGE-1720 Spiritual Formation .....	3
BUS-1000 The Business Profession.....	2
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
GMTH-1020 College Algebra.....	3
GSS-1100 Politics and American Culture.....	3
HUM-1400 Introduction to the Humanities.....	3
ITM-1500 Information Technology for Business.....	2
ITM-1510 Software Tools for Business.....	2
Biological Science Elective.....	3.5
Physical Science Elective.....	3.5
<b>Total .....</b>	<b>31</b>

### 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 .....	3
ECON-2330 Microeconomics .....	3
ECON-2340 Macroeconomics.....	3
PEF-1990 Physical Activity and the Christian Life .....	2
History Elective.....	3
LIT-2XXX Literature Elective .....	3
<b>Total .....</b>	<b>32</b>

### 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-3600 Principles of Marketing .....	3
MRKT-3630 Marketing Research.....	3
MRKT-3650 Consumer Behavior.....	3
Marketing Electives .....	6
Social Science Elective .....	3
<b>Total .....</b>	<b>34</b>

### 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
<b>Total .....</b>	<b>31</b>



## Sport Business Management

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

Course requirements involve 68 semester hours including:

ACCT-2110 Principles of Accounting I .....	3
BUS-1000 Business Profession .....	2
BUS-2100 Business Communication .....	3
BUS-2150 Statistics for Business .....	3
BUS-3910 International Business .....	3
BUS-4420 Business Ethics and Social Responsibility .....	2
BUS-XXXX School of Business Electives .....	3
ECON-2110 Essentials of Economics .....	3
ITM-1500 Information Technology for Business .....	2
ITM-1510 Software Tools for Business .....	2
MGMT-3500 Principles of Organization and Management .....	3
MRKT-3600 Principles of Marketing .....	3
SMGT-1350 Introduction to Sport Management .....	3
SMGT-2100 Sport in Society .....	3
SMGT-2500 Organizational Behavior in Sport .....	3
SMGT-2910 Campus Sport Management Practicum .....	1
SMGT-2920 Recreation Management Practicum .....	1
SMGT-3180 Legal Issues in the Sport Industry .....	3
SMGT-3200 Facility Design 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-4910 Athletic Administration Practicum .....	1
*SMGT-4990 Internship in Sport Management .....	9

<b>Required Cognate</b> .....	<b>3</b>
GMTH-1020 College Algebra.....	3
(Satisfies quantitative requirement for general education core.)	
*Capstone Course	

<b>Sport Business Management Major Curriculum Summary</b>	
Proficiency Requirements .....	0–5
General Education Requirements .....	48–56
Sport Management Major Requirements .....	68
Required Cognate .....	3
Electives .....	1–9
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>



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

### First year:

BTGE-1720 Spiritual Formation .....	3
BUS-1000 Business Profession .....	2
COM-1100 Fundamentals of Speech .....	3
ENG-1400 Composition .....	3
GBIO-1000 Principles of Biology .....	3.5
GMTH-1020 College Algebra .....	3
ITM-1500 Information Technology for Business .....	2
ITM-1510 Software Tools for Business .....	2
PEF-1990 Physical Activity and the Christian Life .....	2
SMGT-1350 Introduction to Sport Management .....	3
SMGT-2100 Sport in Society .....	3
Physical Science Elective .....	3.5
<b>Total .....</b>	<b>33</b>

### 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 Management Practicum .....	1
SMGT-2920 Recreation Management Practicum .....	1
Humanities Elective .....	3
<b>Total .....</b>	<b>29</b>

### Third year:

BTGE-3755 Theology I .....	3
BTGE-3765 Theology II .....	3
BUS-3910 International Business .....	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
History Elective .....	3
LIT-2XXX Literature Elective .....	3
<b>Total .....</b>	<b>33</b>

### Fourth year:

BUS-4420 Business Ethics and Social Responsibility .....	2
SMGT-4100 Marketing and Promotions in the Sport Industry .....	3
SMGT-4200 Financing Sport Operations .....	3
SMGT-4910 Athletic Administration Practicum .....	1
SMGT-4990 Internship in Sport Management .....	9–12
School of Business Electives .....	3
Social Sciences Elective .....	3
Electives .....	6–9
<b>Total .....</b>	<b>33</b>



**Minors**

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

**Business Administration Minor**

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

ACCT-2110 Principles of Accounting I.....	3
ECON-2330 Microeconomics.....	3
MGMT-3500 Principles of Organization and Management.....	3
MRKT-3600 Principles of Marketing.....	3

**Business Administration electives selected from the**

**following 2000- or 3000-level courses.....6**

ACCT-2120 Principles of Accounting II.....	3
BUS-2150 Statistics for Business.....	3
BUS-2180 Business Law.....	3
BUS-3150 Operations Analysis.....	3
BUS-3910 International Business.....	3
ECON-2340 Macroeconomics.....	3
FIN-3710 Principles of Finance.....	3

**Christian Ministries Management Minor**

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

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

**Economics Minor**

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

ECON-2330 Microeconomics.....	3
ECON-2340 Macroeconomics.....	3
ECON-3310 Money and Financial Markets.....	3
ECON-3335 Intermediate Microeconomics.....	3
ECON-3350 Comparative Economic Systems.....	3
3000- or 4000-Level Elective in Economics.....	3

**Entrepreneurship Minor**

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

ACCT-2110 Principles of Accounting I.....	3
BUS-3514 Entrepreneurial Ventures in E-commerce.....	3
MGMT-3510 Entrepreneurship and Small Business Management.....	3
MGMT-3511 Entrepreneurship and Small Business Strategy.....	3
MGMT-3512 Entrepreneurship and Small Business Finance.....	3
MGMT-3513 Entrepreneurship and Small Business Practicum.....	3

**International Business Minor**

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

BUS-3910 International Business.....	3
<b>At least nine hours from the following.....9</b>	
ECON-3350 Comparative Economic Systems.....	3
ECON-3360 International Trade and Economics.....	3
MGMT-3570 International Management.....	3
MRKT-4620 International Marketing.....	3

**At least three hours from the following.....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
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**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
MGMT-3570 International Management.....	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-1500 Information Technology for Business.....	2
ITM-1510 Software Tools for Business.....	2
ITM-1900 Fundamentals of IT Management.....	3
ITM-2100 Database Management.....	3
ITM-2300 Intro to Programming.....	3
(or ITM-3XXX ITM elective.....)	3
ITM-3400 Data Communications and Networking.....	3

**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 18 semester hours including:

SMGT-1350 Introduction to Sport Management.....	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

**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



# Department of Communication

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Technical Resources .....	70	Minor .....	77
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## Mission Statement

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

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

## Personal Requirements

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

## Department Requirements

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

## Technical Resources

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

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

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

## Programs of Study

The Department of Communication offers the following programs of study:

### Majors

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

### Minors

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

## Cocurricular Opportunities

### Debate

Cedarville University traditionally has had a successful debate program, earning the national championship title in 1999, 2000, and 2003 within the National Education Debate Association. In 2003, Cedarville joined the National Parliamentary Debate Association (NPDA), one of the largest debate organizations in the United States. The Debate Team has been ranked in the top 5 percent in the nation for the past four years, including the past two seasons, being ranked in the top 10 and fourth in the nation for the 2012–2013 season. Cedarville debaters are also the 2011 National Champions among Christian colleges and universities small schools division.

### Forensics

Forensics is intercollegiate speech competition, including events in public speaking, oral interpretation, limited preparation, and Lincoln-Douglas debate. In recent years, Cedarville has been state champions in Ohio and national champions among Christian colleges and universities. Contact professor Derrick Green, Assistant Professor of Communications, for audition information. Scholarships are available.

### Lamda Pi Eta

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

### Miriam Maddox Forum

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

### Society for Human Resource Management

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



## Society for Technical Communication

Serves students in the Professional Writing and Information Design major. It promotes communication in technical 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 and digital media are encouraged to join the staff of Resound Radio, the University's award-winning, online, professional, student radio station. Students are involved in planning, programming, and managing the station. Students enjoy a professional working environment and a responsive audience. Popular programs, music, and personalities have made this station an important part of the campus life at Cedarville. The station can be found at [resoundradio.com](http://resoundradio.com).

## Career Opportunities

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

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

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

Other career opportunities include:

- Actor
- Advertising executive
- Anchorperson
- Business manager
- Communication consultant
- Communication statistician
- Community relations director
- Customer service representative
- Development officer
- Film director
- Fund raiser
- Health services manager
- Human rights officer
- Journalist
- Labor relations consultant
- Legal communication consultant
- Legislative correspondent
- Mediation specialist
- 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**, *Interim Chair*; Assistant Professor of Communications; Director of Forensics. *Education*: B.A., Cedarville University, 1997; M.A., Miami University, 1999. At Cedarville since 2002.

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

**Nicholas Carrington**, Instructor of Technical Communication. *Education*: B.A., Cedarville University, 2010; M.A., Missouri State University, 2012. At Cedarville since 2012.

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

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

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

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

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

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

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

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

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

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

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

## Technical Support Staff

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

## Emeriti

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

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



## Applied Communication

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

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

Course requirements involve 48 semester hours including:

**Applied Communication requirements.....25**

COM-1150 Communication Seminar .....	1
COM-2050 Communication Theory .....	3
(or COM-2320 Theories of Mass Media..... 3)	
COM-2200 Communication in Applied Contexts .....	3
(or COM-3120 Argumentation .....	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-3840 Media Analysis .....	3
(or BRDM-3611 Web Analytics.....	3)
COM-4850 Senior Seminar .....	1
BRDM-4155 Image and Word in a Visual Culture.....	3
(or COM-3710 Narrative and Cultural Literacy.....	3)

**Concentration selected from the following.....23**

**Organizational Communication concentration..... 23**

COM-3230 Organizational Communication .....	3
COM-3250 Interviewing .....	3
COM-3260 Organizational Negotiation .....	3
COM-3330 Organizational Training .....	2
COM-4060 Organizational Leadership.....	3
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)

**Public Communication concentration..... 23**

COM-2000 Persuasive Theory.....	3
COM-3810 Speechwriting for the Professional .....	3
COM-4110 History of Public Address .....	3
COM-4120 Contemporary Rhetoric .....	3
COM-4610 Communication Ethics.....	2
COM-4950 Applied Capstone .....	3
*Electives .....	6

\*Electives are chosen by the student to meet his/her specific life goals and must be approved by the department Chair and the student's advisor. No 1000-level courses may apply.

**Strategic Communication Concentration..... 23**

COM-2520 Virtual 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.....	9

\*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.

## Applied Communication Major Curriculum Summary

Proficiency Requirements .....	0-5
General Education Requirements.....	51-59
Applied Communication Major Requirements .....	48
Electives .....	21-29
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

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

### Suggested Four-Year Curriculum for a Major in Applied Communication

*First year:*

BTGE-1720 Spiritual Formation .....	3
COM-1150 Communication Seminar .....	1
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
GSS-1100 Politics and American Culture.....	3
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life .....	2
Biological Science Elective.....	3.5
History Elective.....	3
LIT-2XXX Literature Elective .....	3
Quantitative Elective.....	3
<b>Total .....</b>	<b>30.5</b>

*Second year:*

BTGE-2730 Old Testament Literature.....	3
BTGE-2740 New Testament Literature .....	3
COM-2050 Communication Theory.....	3
(or COM-2320 Theories of Mass Media .....	3)
COM-2200 Communication in Applied Contexts .....	3
(or COM-3120 Argumentation.....	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
Applied Communication Concentration .....	8
<b>Total .....</b>	<b>32.5</b>

*Third year:*

BTGE-3755 Theology I.....	3
BTGE-3765 Theology II.....	3
COM-3240 Interpersonal Communication .....	2
COM-3840 Media Analysis .....	3
(or BRDM-3611 Web Analytics .....	3)
BRDM-4155 Image and Word in a Visual Culture.....	3
(or COM-3710 Narrative and Cultural Literacy .....	3)
Applied Communication Concentration .....	9
Electives .....	10
<b>Total .....</b>	<b>33</b>

*Fourth year:*

COM-4850 Senior Seminar .....	1
COM-3100 Advanced Public Speaking.....	3
Humanities Elective .....	3
Applied Communication Concentration .....	6
Electives .....	19
<b>Total .....</b>	<b>32</b>

**Broadcasting and Digital Media**

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

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

Course requirements involve 53 semester hours — 32 semester hours of core courses that provide the student with an overview of these media and develop skills in common with all of them and a 21-hour concentration. The concentrations provide specialized courses in audio production, video/film production, and a program of study designed by the student and faculty members to meet his or her specific life goal.

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

*Course requirements involve 53–54 semester hours including:*

**Core Requirements.....32–33**

- BRDM-1110 Introduction to Broadcasting and Digital Media .... 3
- BRDM-1120 Audio Technical Training ..... 3
- BRDM-2110 Video Technical Training ..... 3
- BRDM-2130 Writing for Electronic Media ..... 3
- (or BRDM-3330 Screenwriting ..... 2)
- (or BRDM/JOUR 3605 Writing and Design Web/Mobile Media ..... 3)
- BRDM-2810 Sophomore Seminar ..... 1
- BRDM-3111 Survey Research for Electronic Media..... 3
- (or BRDM-3611 Web Analytics ..... 3)
- BRDM/JOUR-3150 Media Ethics..... 2
- BRDM-3151 Christian Approaches to Electronic Media ..... 2
- BRDM/JOUR-3650 Networked Audience ..... 3
- BRDM-4110 Electronic 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 Electronic Media 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-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-3355 SFX and Compositing for TV and Film .....3
- BRDM-3620 Digital Compression and Streaming.....3
- BRDM-4310 Advanced Cinematography and Lighting.....3

**Practica – three hours selected from the following .....3**

- +BRDM-3731 Video Production Practicum..... 1
- +BRDM-3733 Sports Production Practicum ..... 1
- +BRDM-3734 Film Practicum..... 1

**Digital Radio and Audio concentration ..... 21**

- BRDM-1210 Media Performance .....3
- BRDM-3210 Digital Audio Post-Production .....3
- BRDM-3215 Live Sound .....3
- Select one set of courses approved by advisor..... 12

Set one:

- BRDM-3410 Electronic Media Sales ..... 3
- THTR-1410 Introduction to Theatre ..... 3
- THTR-2410 Advanced Performance Techniques..... 3
- THTR-2430 Acting I..... 3

Set two:

- BRDM-2220 Sound Design ..... 3
- BRDM-3211 Digital Music Production..... 3
- BRDM-3216 Audio for Video/Film ..... 3
- BRDM-3720 Audio Production Practicum (1 hour each; 3 hours required)..... 3

**Integrated Digital Media concentration ..... 21**

- 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.

\*Capstone Course

+Repeatable

**Broadcasting and Digital Media Major Curriculum Summary**

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

**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 24.

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

### *First year:*

BTGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech .....	3
BRDM-1110 Introduction to Broadcasting and Digital Media .....	3
BRDM-1120 Audio Technical Training .....	3
ENG-1400 Composition .....	3
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to the Humanities .....	3
PEF-1990 Physical Activity and the Christian Life .....	2
Biological Science Elective .....	3.5
History Elective .....	3
Quantitative Elective .....	3
<b>Total .....</b>	<b>32.5</b>

### *Second year:*

BTGE-2730 Old Testament Literature .....	3
BTGE-2740 New Testament Literature .....	3
BRDM-2110 Video Technical Training .....	3
BRDM-2810 Sophomore Seminar .....	1
BRDM-XXXX Writing Option .....	3
Concentration Requirements .....	12
Physical Science Elective .....	3.5
LIT-2XXX Literature Elective .....	3
<b>Total .....</b>	<b>31.5</b>

### *Third year:*

BTGE-3755 Theology I .....	3
BTGE-3765 Theology II .....	3
BRDM-3150 Media Ethics .....	2
BRDM-3151 Christian Approaches to Electronic Media .....	2
BRDM-3650 Networked Audience .....	3
BRDM-XXXX Research Option .....	3
Concentration Requirements .....	6
Social Science/Global Awareness Elective .....	3
Electives .....	7
<b>Total .....</b>	<b>32</b>

### *Fourth year:*

BRDM-4110 Electronic 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 Electronic Media Internship .....	3-12)
Concentration Requirements .....	3
Humanities Elective .....	3
Electives .....	16
<b>Total .....</b>	<b>32</b>



**Journalism**

The **journalism major** prepares students for careers in a wide range of media — convergent journalism and public relations.

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

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

Entrance into the journalism program is contingent on passing the GSP (Grammar/Spelling/Punctuation) Test. Also, students must have a minimum GPA of 2.5.

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

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

Course requirements involve 51 semester hours including:

<b>Core Requirements</b> .....	<b>32</b>
COM-2320 Theories of Mass Media.....	3
COM-2510 Media History.....	3
JOUR-1000 Introduction to Media Writing.....	3
JOUR-2000 Introduction to Reporting.....	3
JOUR-3100 Media Law.....	3
JOUR-3150 Media Ethics.....	2
JOUR/BRDM-3605 Writing and Design for Web/Mobile Media.....	3
JOUR/BRDM-3650 Networked Audience.....	3
JOUR/BRDM-4650 Designing Solutions for New Audiences ...	3
*JOUR-4950 Internship.....	6
<b>Concentration selected from the following</b> .....	<b>19</b>
<b>Convergent Journalism concentration</b> .....	<b>19</b>
JOUR-3310 Adv Newswriting/Reporting for Broadcasting.....	3
JOUR-3320 Adv Newswriting and Reporting for Print.....	3
JOUR-3900 Journalism Practicum.....	1
Convergent courses selected from.....	6
JOUR-3350 Television News Production.....	3
JOUR-3420 Editing and Design.....	3
JOUR-3600 Computer Assisted Reporting.....	3
<b>Electives selected from the following</b> .....	<b>6</b>
BRDM-1120 Audio Technical Training.....	3
BRDM-3350 Documentary Films.....	3
BRDM-3370 Documentary Film-style Production.....	3
BRDM-3611 Web Analytics.....	3
JOUR-4420 Feature Writing.....	3
JOUR-4600 Magazine Writing.....	3
JOUR-4610 Photojournalism.....	3
JOUR-4620 Investigative Reporting.....	3
<b>Public Relations concentration</b> .....	<b>19</b>
JOUR-2500 Introduction to Public Relations.....	3
JOUR-3500 Public Relations Principles and Writing.....	3
JOUR-3550 Advanced Public Relations Writing.....	3
JOUR-4500 Public Relations Campaigns.....	3
JOUR-4550 Practicum in Public Relations.....	1
<b>Electives selected from the following</b> .....	<b>6</b>
COM-3230 Organizational Communication.....	3
COM-3810 Speechwriting for the Professional.....	3
COM-4060 Organizational Leadership.....	3
JOUR-4820 Special Topics in Public Relations.....	3
MRKT-3600 Principles of Marketing.....	3

\*Capstone Course

**Journalism Major Curriculum Summary**

Proficiency Requirements.....	0–5
General Education Requirements.....	<b>51–59</b>
Journalism Major Requirements.....	51
Minor or Support Field.....	16–18
Electives.....	0–10
<b>Total (minimum, not including proficiency)</b> .....	<b>128</b>

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

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

**Suggested Four-Year Curriculum for a Major in Journalism**

*First year:*

BTGE-1720 Spiritual Formation.....	3
COM-2320 Theories of Mass Media.....	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
JOUR-1000 Introduction to Media Writing.....	3
PEF-1990 Physical Activity and the Christian Life.....	2
Biological Science Elective.....	3.5
History Elective.....	3
Quantitative Elective.....	3
<b>Total</b> .....	<b>32.5</b>

*Second year:*

BTGE-2730 Old Testament Literature.....	3
BTGE-2740 New Testament Literature.....	3
COM-2510 Media History.....	3
JOUR-2000 Introduction to Reporting.....	3
JOUR/BRDM-3605 Writing and Design for Web/Mobile Media.....	3
LIT-2XXX Literature Elective.....	3
Concentration Requirements.....	3
Humanities Elective.....	3
Physical Science Elective.....	3.5
Minor or Support Field.....	3
<b>Total</b> .....	<b>30.5</b>

*Third year:*

BTGE-3755 Theology I.....	3
BTGE-3765 Theology II.....	3
JOUR-3100 Media Law.....	3
JOUR-3150 Media Ethics.....	2
JOUR/BRDM-3650 Networked Audience.....	3
Concentration Requirements.....	6
Social Science/Global Awareness Elective.....	3
Minor or Support Field.....	9
<b>Total</b> .....	<b>32</b>

*Fourth year:*

JOUR/BRDM-4650 Designing Solutions for New Audiences.....	3
JOUR-4950 Internship.....	6
Concentration Requirements.....	10
Electives.....	8–10
Minor or Support Field.....	4–6
<b>Total</b> .....	<b>33</b>



**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 56 semester hours in specific professional writing and information design courses.

<b>Professional Writing and Information Design Core</b> .....	<b>56</b>
ENG-3070 English Grammar .....	3
PWID-3000 Production Tools and Document Design .....	3
PWID-3010 Style and Mechanics for Writers .....	3
PWID-3020 Professional Portfolio Development I .....	1
PWID-3090 Technical Marketing Communication .....	3
PWID-3130 Technical Communication .....	3
PWID-3170 The Technical Communicator in a Corporate Culture .....	2
PWID-3180 Visual Rhetoric .....	3
PWID-3210 Technical Editing .....	2
PWID-3250 Documentation Design .....	3
PWID-4010 Designing Technical Reports .....	3
PWID-4020 Professional Portfolio Development II .....	1
PWID-4050 Designing Online Information I .....	3
PWID-4060 Designing Online Information II .....	3
PWID-4070 Designing Online Information III .....	2
PWID-4130 Instructional Design I .....	3
PWID-4140 Instructional Design II .....	3
PWID-4160 Technical and Professional Communication Internship .....	3
*PWID-4170 Special Topics .....	3
<b>Electives selected from the following</b> .....	<b>6</b>
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 .....	0–5
Other General Education Requirements .....	51–59
Professional Writing and Information Design Requirements .....	56
Electives .....	13–21
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

**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*
- Guy Margiotta, Chase Bank*
- Sylvia Miller, Elsevier*
- Genelle Pretty, Parker Hannifin Corporation*
- Matt Pretty, Hyland Software*
- Jim Visgaitis, HP Enterprise Services*

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

<i>First year:</i>	
BTGE-1720 Spiritual Formation .....	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
PEF-1990 Physical Activity and the Christian Life .....	2
LIT-2XXX Literature Elective .....	3
PWID-3010 Style and Mechanics for Writers .....	3
Quantitative Elective .....	3
<b>Total .....</b>	<b>32.5</b>
<i>Second year:</i>	
BTGE-2730 Old Testament Literature .....	3
BTGE-2740 New Testament Literature .....	3
PWID-3000 Production Tools and Document Design .....	3
PWID-3020 Professional Portfolio Development .....	1
PWID-3130 Technical Communication .....	3
PWID-3170 The Technical Communicator in a Corporate Culture .....	2
PWID-3210 Technical Editing .....	2
PWID-3250 Documentation Design .....	3
PWID Electives .....	3
Humanities Elective .....	3
Electives .....	7
<b>Total .....</b>	<b>33</b>
<i>Summer:</i>	
PWID-4160 Technical and Professional Communication Internship .....	3
<b>Total .....</b>	<b>3</b>
<i>Third year:</i>	
BTGE-3755 Theology I .....	3
BTGE-3765 Theology II .....	3
PWID-3090 Technical Marketing Communication .....	3
PWID-3180 Visual Rhetoric .....	3
PWID-4050 Designing Online Information I .....	3
PWID-4060 Designing Online Information II .....	3
PWID Electives .....	3
History Elective .....	3
Physical Science Elective .....	3.5
Social Science/Global Awareness Elective .....	3
<b>Total .....</b>	<b>30.5</b>
<i>Fourth year:</i>	
PWID-4010 Designing Technical Reports .....	3
PWID-4020 Professional Portfolio Development II .....	1
PWID-4070 Designing Online Information III .....	2
PWID-4130 Instructional Design I .....	3
PWID-4140 Instructional Design II .....	3
PWID-4170 Special Topics .....	3
Electives .....	14
<b>Total .....</b>	<b>29</b>

**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 Technical Training .....3  
 BRDM-2110 Video Technical Training .....3  
 BRDM-2130 Writing for Electronic 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 Film Minor**

Course requirements for the minor in digital film involve 18 semester hours selected from the following courses:

BRDM-2320 Preproduction and Planning for Film/Video .....3  
 BRDM-2350 Introduction to Graphics for TV and Film .....3  
 BRDM-3210 Digital Audio Post Production .....3  
 BRDM-3310 Digital Film Production .....3  
 BRDM-3355 SFX and Compositing for TV and Film .....3  
 BRDM-4310 Advanced Cinematography and Lighting .....3

**Editing and Publishing Minor**

The **editing and publishing minor** is designed to prepare students for careers in the publishing field. Course requirements involve 19 credit hours including:

ENG-3070 English Grammar .....3  
 PWID-3000 Production Tools and Document Design .....3  
 PWID-3010 Style and Mechanics for Writers .....3  
 PWID-3210 Technical Editing .....2  
 PWID-XXXX Electives .....8

**Intercultural Communication Minor**

Course requirements for the minor in **intercultural communication** involve 17 semester hours selected from the following courses:

COM-2140 Intercultural Communication .....3  
 COM-2300 Voices Of Diversity .....3  
 COM-3150 Gender, Politics, and Communication .....3  
 COM-3240 Interpersonal Communication .....2  
 COM-3710 Narrative and Cultural Literacy .....3

**One of the following courses .....3**

THTR-2510 Theatre for Social Change ..... 3  
 A departmental approved 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 Graphics for TV and Film .....3  
 BRDM-2606 Introduction to Computer Animation for Electronic Media .....2  
 BRDM-3355 SFX and Compositing for TV and Film .....3  
 BRDM-3630 Principles of Computer Animation .....3  
 VCD-1000 Graphic Design for non-Majors .....3  
 (or VCD-2400 Graphic Design I ..... 3)

**Production Electives selected from .....3**

ART-2250 Creative Photography ..... 3  
 BRDM-2110 Video Technical Training ..... 3  
 BRDM-3310 Digital Film Production ..... 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 Introduction to Media Writing .....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 .....8  
 BRDM-3611 Web Analytics ..... 3  
 COM-2000 Persuasive Theory ..... 3  
 COM-2320 Theories of Mass Media ..... 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-3000 Production Tools and Document Design .....3  
 PWID-3010 Style and Mechanics for Writers .....3  
 PWID-3090 Technical Marketing Communication .....3  
 PWID-4010 Designing Technical Reports .....3  
 Two courses selected from the following .....6  
 PWID-3250 Documentation Design ..... 3  
 PWID-4130 Instructional Design I ..... 3  
 PWID-4140 Instructional Design II ..... 3



# School of Education

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## Mission Statement

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

## School Distinctives

- **Accreditation:** Cedarville University is accredited by the Higher Learning Commission and National Council for the Accreditation of Teacher Education Council. The University's teacher preparation programs are approved by the Ohio Board of Regents.
- 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 Board of Regents. Ohio bases its requirements and approval processes on standards set by the Council for the Accreditation of Teacher Preparation (CAEP). Cedarville is a member of CAEP. Ohio is a participant in the Interstate Agreement on Qualifications of Educational Personnel and has an implementation agreement (reciprocity) with 42 states. This agreement provides for recognition of Ohio Department of Education-approved programs by member states.

Although reciprocal licensure contracts exist with 42 states, in many cases, students must meet additional requirements to obtain extended or permanent licensure for those states. Also, because of the nature of Ohio's teacher licensing standards, graduates with an Ohio license will normally be granted a license of "best fit" with the state in which the graduate wishes to teach. State licensure requirements are continually changing; therefore, students who wish to teach outside of Ohio should obtain a current description of certification requirements from the department of education for each state in which they would like to teach. Most states have their certification requirements posted electronically. Graduates may transfer their State of Ohio teaching license to any state in the United States.

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

## Demographic Profile

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

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

## Personal Requirements

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

## Cocurricular Opportunities

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

## Teacher Education Program Admission Requirements

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

1. Minimum cumulative GPA of 3.0 in all courses and 2.7 GPA in all TEP core curriculum courses. All TEP core courses must be completed with a grade of "C-" or higher.
2. Minimum GPA of 2.5 in the teaching field content area(s), and content core for early childhood education.
3. No grade of less than "C-" in teaching field or concentration area courses. For early childhood, middle childhood, and special education, this includes general education courses in the content areas of humanities, science, mathematics, and social science.
4. Minimum passing scores on the CASE exams.
5. Satisfactory completion of all introductory field experiences: EDUC-1050 Preliminary Student Involvement, EDUC-2200 Multicultural Field Experience, and EDSP-2050 Field Experience: Exceptional Learning Needs.
6. Valid "No Record" background check for the state of Ohio

- and an additional FBI background check.
- 7. Satisfactory referral letter from academic advisor and one external reference.

### Teacher Education Program Retention and Completion Requirements

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

- Maintain a GPA of 3.0 or higher in all courses.
- 1. Obtain a “C-” or higher in all methods courses.
- 2. Satisfactorily complete field and clinical experiences.
- 3. Earn a passing score on all state-required licensure assessments.
- 4. Satisfactorily complete the internship experience.

### Test Pass Rates

For up-to-date testing pass rates and the Ohio educator preparation performance report see [cedarville.edu/SOEaccreditation](http://cedarville.edu/SOEaccreditation).

### Programs of Study

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

- Multi-Age Special Education — Intervention Specialist-mild to moderate (K–12)
- Early Childhood Education (pre–K to grade 3)
- Middle Childhood Education (grades 4–9)  
Two concentrations chosen from:
  - Mathematics
  - Reading/Language Arts
  - Science
  - Social Studies

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

- Adolescent and Young Adult (grades 7–12)
  - Language Arts Education – Integrated (Department of English, Literature, and Modern Languages, page 103)
  - Life Science Education
  - Mathematics Education – Integrated
  - Physical Science Education
  - Physics Education
  - Science Comprehensive Education – Integrated (Department of Science and Mathematics, page 184)
  - Social Studies Education – Integrated (Department of History and Government, page 118)
- Multi-Age Licensure (pre–K to grade 12)
  - Health and Physical Education
  - Physical Education (Department of Kinesiology and Allied Health, page 125)
  - Music Education (Department of Music and Worship, page 146)
  - Spanish Education (Department of English, Literature, and Modern Languages, page 104)
  - Bible Teacher Education (School of Biblical and Theological Studies, page 52)

### Early Childhood Generalist Endorsement

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

### Career Opportunities

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

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

### Faculty

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

**Margaret Grigorenko**, *Associate Dean for Undergraduate Programs*; Associate Professor of Education. *Education*: B.S., Bowling Green State University, 1978; M.Ed., Cedarville University, 1995; Ph.D., The Ohio State University, 2010. At Cedarville since 2006.

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

**Eddie Baumann**, Senior Professor of Education. *Education*: B.S., University of Wisconsin, 1983; M.S., University of Wisconsin, 1987; Ph.D., University of Wisconsin, 1995. At Cedarville since 1993.

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

**Lori Ferguson**, Instructor of Education. *Education*: B.A., Cedarville University, 1998; M.S., University of Dayton, 2002.

**Timothy Heaton**, Professor of Education. *Education*: B.A., Wittenberg University, 1973; M.A., Grace Theological Seminary, 1986; Ph.D., University of Dayton, 1999. At Cedarville since 1987.



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

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

**Lynn Roper**, Assistant Professor of Special Education. *Education:* B.S., Asbury College, 1988; Certification in Special Education, University of Kentucky, 1990; M.S.W., University of Kentucky, 2000; Graduate study in special education, University of Kentucky, 2005–present. At Cedarville since 2010.

**Thomas Sweigard**, Associate Professor of Education. *Education:* B.S., Bowling Green State University, 1973; M.A., The Ohio State University, 1982; Ph.D., The Ohio State University, 1992. At Cedarville since 2003.

**Ruth Sylvester**, Associate Professor of Education. *Education:* B.S., Tennessee Temple University, 1981; M.Ed., University of South Florida, 1991; Ph.D., University of South Florida, 2007. At Cedarville since 2013.

**Emeriti**

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

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

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

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



**General Education Requirements for Education Majors**

**Early Childhood Education (EC)**

**Middle Childhood Education (MC)**

**Special Education — Intervention Specialist (SpE)**

**Biblical and Theological Studies** ..... 15

BTGE-1720 Spiritual Formation ..... 3

BTGE-2730 Old Testament Literature ..... 3

BTGE-2740 New Testament Literature ..... 3

BTGE-3755 Theology I ..... 3

BTGE-3765 Theology II ..... 3

**Communications** ..... 6

COM-1100 Fundamentals of Speech ..... 3

ENG-1400 English Composition ..... 3

**Humanities** ..... 9–12

EDUC-2400 Children’s Literature (EC, SpE) ..... 3

EDUC-3100 Philosophical Foundations of Education ..... 3

\*HUM-1400 Introduction to the Humanities ..... 3

\*LIT-2300 Introduction to Literature ..... 3

(or LIT-2340 Western Literature) ..... 3)

**Physical Education** ..... 2

PEF-1990 Physical Activity and the Christian Life ..... 2

**Science and Mathematics** ..... 13–17

\*GBIO-1000 Principles of Biology ..... 3.5

EDUC-1800 Principles of Mathematics I ..... 3

EDUC-2800 Principles of Mathematics II ..... 3

\*GSCI-1010 Principles of Earth Science (EC) ..... 3.5

\*GSCI-2010 Physical Science for Teachers (EC, SpE) ..... 4

<sup>1</sup>Physical Science elective selected from: (MC) ..... 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-2010 Physical Science for Teachers ..... 4

**Social Science** ..... 9

\*GSS-1100 Politics and American Culture ..... 3

<sup>2</sup>HIST-1110 United States History I ..... 3

(or HIST-1120 United States History II ..... 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

**Foreign Language** ..... 0–8

See the global awareness section of the general education requirements.

\*Content core courses for early childhood and special education

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

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

**Teacher Education Core**

*Required of all teacher education majors*

**Teacher Education Core** ..... 12

EDUC-1000 The Education Profession ..... 2

EDUC-1050 Preliminary Student Involvement ..... 0

EDUC-2000 Introduction to Diverse Learners ..... 2

EDUC-2100 Technology in the Classroom ..... 2

EDUC-2200 Multicultural Field Experience ..... 1

EDUC-2500 Educational Psychology ..... 3

EDSP-2000 Teaching Children with Exceptionalities ..... 1

EDSP-2050 Field Experience: Exceptional Learning Needs .... 1

## Early Childhood Education

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

Course requirements involve 69 semester hours including:

<b>Teacher Education Core (see page 81)</b> .....	<b>12</b>
<b>Early Childhood Foundations</b> .....	<b>11</b>
EDEC-2100 Art and Music for Early Childhood .....	2
EDEC-2300 Phonics and the Reading Process.....	4
EDSP-2500 Survey of Intellectual and Developmental Disabilities .....	1
ESED-2900 Health and Movement Education.....	2
PYCH-2725 Child Development.....	2
<b>Early Childhood Methods I</b> .....	<b>17</b>
EDEC-3500 Early Childhood Education .....	3
EDEC-3600 Issues in Early Childhood Administration .....	3
EDEC-3800 Teaching Reading and Lang. Arts: EC.....	4
EDEC-3900 Field Experience in Early Childhood Education ...	1
EDEC-3950 Early Childhood Clinical I .....	3
EDSP-3100 Diagnostics and Intervention in Reading .....	3
<b>Early Childhood Methods II</b> .....	<b>17</b>
EDEC-4000 Reading in the Content Area: EC.....	2
EDEC-4100 Teaching Mathematics: EC .....	3
EDEC-4200 Teaching Science: EC.....	3
EDEC-4300 Teaching Social Studies: EC.....	3
EDEC-4450 Early Childhood Clinical II .....	3
EDSP-4250 Communication, Collaboration, and Inclusion.....	2
EDUC-3200 Faith and Learning Alignment .....	1
<b>Student Teaching</b> .....	<b>12</b>
*EDEC-4900 Student Teaching and Seminar: EC .....	12

\*Capstone Course

### Early Childhood Education Major Curriculum Summary

Proficiency Requirements .....	0–5
General Education Requirements.....	61–69
Early Childhood Education Major Requirements.....	69
<b>Total (minimum, not including proficiency)</b> .....	<b>130</b>

## Early Childhood Education Generalist Endorsement (Grades 4–5)

The **early childhood education generalist endorsement** prepares teachers to work with students in grades 4 and 5.

### Early Childhood Education Generalist

<b>Endorsement courses</b> .....	<b>9</b>
EDMC-2800 Development Issues in Young Adolescents.....	2
EDMC-3550 Curriculum and Instruction for Grades 4 and 5....	3
EDMC-3970 Middle Childhood Clinical (grades 4 and 5) .....	2
HIST-2100 Ohio History for Educators.....	2

The state of Ohio Early Childhood Generalist Endorsement (grades 4–5) is currently under review by the Ohio Board of Regents. Pending their decision, this endorsement may no longer be available for undergraduate students but available at the graduate level. The School of Education should be consulted on the availability of this endorsement.

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

### First year:

BTGE-1720 Spiritual Formation .....	3
BTGE-2730 Old Testament Literature.....	3
COM-1100 Fundamentals of Speech.....	3
EDUC-1000 The Education Profession.....	2
EDUC-1800 Principles of Mathematics I .....	3
EDUC-2100 Technology in the Classroom .....	2
ENG-1400 Composition.....	3
GBIO-1000 Principles of Biology .....	3.5
GSCI-1010 Principles of Earth Science .....	3.5
PEF-1990 Physical Activity and the Christian Life .....	2
PYCH-2725 Child Development.....	2
History Elective.....	3
<b>Total</b> .....	<b>33</b>

### Second year:

BTGE-2740 New Testament Literature .....	3
BTGE-3755 Theology I.....	3
EDEC-2100 Art and Music for Early Childhood .....	2
EDEC-2300 Phonics and the Reading Process .....	4
EDSP-2000 Teaching Children with Exceptionalities .....	1
EDSP-2050 Field Experience: Exceptional Learning Needs .....	1
EDSP-2500 Survey of Intellectual and Developmental Disabilities ...	1
EDUC-1050 Preliminary Student Involvement.....	0
EDUC-2000 Introduction to Diverse Learners .....	2
EDUC-2200 Multicultural Field Experience .....	1
EDUC-2800 Principles of Mathematics II .....	3
EDUC-3100 Philosophical Foundations of Education .....	3
GSCI-2010 Physical Science for Teachers.....	4
Global Studies Elective.....	3
LIT-2XXX Literature Elective .....	3
<b>Total</b> .....	<b>34</b>

### Third year:

BTGE-3765 Theology II.....	3
EDEC-3500 Early Childhood Education .....	3
EDEC-3600 Issues in Early Childhood Administration .....	3
EDEC-3800 Teaching Reading and Language Arts: EC.....	4
EDEC-3900 Field Experience in Early Childhood Education .....	1
EDEC-3950 Early Childhood Clinical 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
<b>Total</b> .....	<b>34</b>

### Fourth year:

EDEC-4000 Reading in the Content Area: EC.....	2
EDEC-4100 Teaching Mathematics: EC .....	3
EDEC-4200 Teaching Science: EC.....	3
EDEC-4300 Teaching Social Studies: EC.....	3
EDEC-4450 Early Childhood Clinical II .....	3
EDEC-4900 Student Teaching and Seminar: EC .....	12
EDSP-4250 Communication, Collaboration, and Inclusion.....	2
EDUC-3200 Faith and Learning Alignment .....	1
<b>Total</b> .....	<b>29</b>

### Middle Childhood Education

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

Course requirements involve 45 education semester hours plus 36–41 concentration area hours including:

<b>Teacher Education Core (see page 81)</b> .....	<b>12</b>
<b>Middle School Methods I</b> .....	<b>13</b>
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 Clinical I.....	2
<b>Middle School Methods II</b> .....	<b>6</b>
EDMC-4000 Reading in Content Area: MC.....	3
EDMC-4440 Middle School Clinical II.....	2
EDUC-3200 Faith and Learning Alignment .....	1
<b>Student Teaching</b> .....	<b>14</b>
*EDMC-4900 Student Teaching and Seminar .....	12
EDSP-4250 Communication, Collaboration, and Inclusion.....	2

\*Capstone Course

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

<b>Mathematics</b> .....	<b>21</b>
EDMC-3300 Topics in Middle School Mathematics .....	3
EDMC-4100 Teaching Mathematics: Middle Childhood.....	3
GMTH-1020 College Algebra.....	3
GMTH-1030 Precalculus.....	4
GMTH-3010 Proof and Mathematical Modeling.....	3
MATH-1710 Calculus I .....	5
<b>Language Arts</b> .....	<b>18</b>
COM-2320 Theories of Mass Media.....	3
EDMC-3800 Writing Process and Language	
Arts Methods for Middle School.....	3
ENG-2230 Advanced Composition .....	3
ENG-3060 The English Language.....	3
ENG-3070 English Grammar.....	3
LIT-2390 Survey of American Literature to 1900.....	3
<b>Science</b> .....	<b>20</b>
CHEM-1000 Principles of Chemistry .....	5
EDMC-4200 Teaching Science: Middle Childhood .....	3
GSCI-2010 Physical Science for Teachers.....	4
GSCI-3010 Concepts in Middle School Science.....	4
GSCI-3060 Environmental Science for Middle School Educators	4
<b>Social Studies</b> .....	<b>18</b>
ECON-2110 Essentials of Economics.....	3
EDMC-4300 Teaching Social Studies: Middle Childhood .....	3
*GEO-3510 World Regional Geography — Western .....	3
HIST-1120 United States History II.....	3
HIST-2010 History of Civilization I.....	3
HIST-2020 History of Civilization II .....	3

\*Course also satisfies a general education requirement or a professional education requirement.

#### Middle Childhood Education Major Curriculum Summary

Proficiency Requirements .....	0–5
General Education Requirements.....	54–62.5
Middle Childhood Education Major Requirements.....	45
Concentration Requirements .....	36–41
<b>Total (minimum, not including proficiency)</b> .....	<b>135</b>

\*Total credits vary depending on concentrations chosen.

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

#### First year:

BTGE-1720 Spiritual Formation .....	3
BTGE-2730 Old Testament Literature.....	3
COM-1100 Fundamentals of Speech.....	3
EDUC-1000 The Education Profession.....	2
EDUC-1050 Preliminary Student Involvement.....	0
EDUC-1800 Principles of Mathematics I .....	3
ENG-1400 Composition.....	3
GBIO-1000 Principles of Biology .....	3.5
GSS-1100 Politics and American Culture.....	3
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life .....	2
Concentration Electives.....	8
<b>Total</b> .....	<b>36.5</b>

#### Second year:

BTGE-2740 New Testament Literature .....	3
BTGE-3755 Theology I.....	3
EDSP-2000 Teaching Children with Exceptionalities .....	1
EDSP-2050 Field Experience: Exceptional Learning Needs .....	1
EDUC-2000 Introduction to Diverse Learners .....	2
EDUC-2100 Technology in the Classroom .....	2
EDUC-2200 Multicultural Field Experience .....	1
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
<b>Total</b> .....	<b>36.5–37</b>

#### 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 Clinical I.....	2
HIST-XXXX US History Elective .....	3
Global Studies Elective.....	3
Concentration Electives.....	15
<b>Total</b> .....	<b>37</b>

#### Fourth year:

EDMC-4000 Reading in the Content Area Middle Childhood.....	3
EDMC-4440 Middle School Clinical II.....	2
EDMC-4900 Student Teaching and Seminar: EC.....	12
EDSP-4250 Communication, Collaboration, and Inclusion.....	2
EDUC-3200 Faith and Learning Alignment .....	1
Concentration Electives.....	5–10
<b>Total</b> .....	<b>25–30</b>





**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.

Course requirements involve 75 semester hours including:

<b>Teacher Education Core (see page 81)</b> .....	<b>12</b>
<b>Special Education Foundations</b> .....	<b>10</b>
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
PYCH-2735 Child-Adolescent Development.....	3
<b>Special Education Block</b> .....	<b>16</b>
EDSP-2700 Teaching Children Mild to Moderate Disabilities ...	2
EDSP-3500 Special Education Law .....	1
EDSP-4100 Adaptive Curriculum and Instruction .....	2
EDSP-4150 Career and Occupational Training.....	2
EDSP-4300 Behavior and Instructional Management .....	3
EDSP-4400 Assessment in Special Education.....	3
EDSP-4550 Special Education Clinical: AYA .....	3
<b>Reading Methods</b> .....	<b>10</b>
EDEC-3800 Teaching Reading and Lang. Arts: EC .....	4
EDSP-3150 Intervention and Diagnosis in Reading for Special Educators .....	3
EDSP-3950 Special Education Clinical: EC.....	3
<b>Early Childhood Methods II</b> .....	<b>15</b>
EDEC-4000 Reading in the Content Area .....	2
EDEC-4100 Teaching Mathematics: EC .....	3
EDEC-4200 Teaching Science: EC.....	3
EDEC-4300 Teaching Social Studies: EC.....	3
EDSP-4450 Special Ed. Clinical: MC.....	3
EDUC 3200 Faith and Learning Alignment.....	1
<b>Student Teaching</b> .....	<b>12</b>
*EDSP-4900 Student Teaching and Seminar: SpE.....	12

\*Capstone Course

**Special Education Major Curriculum Summary**

Proficiency Requirements.....	0–5
General Education Requirements.....	57.5–65.5
Special Education Major Requirements.....	75
<b>Total (minimum, not including proficiency)</b> .....	<b>132.5</b>



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

*First year:*

BTGE-1720 Spiritual Formation .....	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 .....	3
EDUC-2100 Technology in the Classroom .....	2
EDUC-2400 Children's Literature.....	3
EDUC-2800 Principles of Mathematics II .....	3
ENG-1400 Composition.....	3
GBIO-1000 Principles of Biology .....	3.5
PYCH-2735 Child-Adolescent Development.....	3
<b>Total</b> .....	<b>33.5</b>

*Second year:*

BTGE-2740 New Testament Literature .....	3
BTGE-3755 Theology I.....	3
EDEC-2300 Phonics and the Reading Process .....	4
EDSP-2500 Survey of Intellectual and Developmental Disabilities ...	1
EDUC-1050 Preliminary Student Involvement .....	0
EDUC-2500 Educational Psychology .....	3
EDUC-3100 Philosophical Foundations of Education .....	3
GSCI-2010 Physical Science for Teachers.....	4
GSS-1100 Politics and American Culture.....	3
Global Studies Elective.....	3
History Elective.....	3
Introduction Block .....	5
<b>Total</b> .....	<b>35</b>

*Third year:*

BTGE-3765 Theology II .....	3
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life .....	2
Reading Methods I (10 credits)	
EDEC-3800 Teaching Reading and Language Arts: EC.....	4
EDSP-3150 Intervention and Diagnosis in Reading for Special Educators.....	3
EDSP-3950 Special Education Clinical: EC.....	3
Early Childhood Methods II (15 credits)	
EDEC-4000 Reading in the Content Area: EC.....	2
EDEC-4100 Teaching Mathematics: EC .....	3
EDEC-4200 Teaching Science: EC.....	3
EDEC-4300 Teaching Social Studies: EC.....	3
EDSP-4450 Special Education Clinical: MC.....	3
EDUC-3200 Faith and Learning Alignment .....	1
<b>Total</b> .....	<b>33</b>

*Summer (Online)*

EDSP-3500 Special Education Law .....	1
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*Fourth year:*

Special Education Block (15 credits)	
EDSP-2700 Teaching Children Mild to Moderate Disabilities .....	2
EDSP-4100 Adaptive Curriculum and Instruction .....	2
EDSP-4150 Career Education and Occupation Training .....	2
EDSP-4300 Behavior and Instructional Management .....	3
EDSP-4400 Assessment in Special Education.....	3
EDSP-4550 Special Education Clinical: AYA .....	3
LIT-2XXX Literature Elective .....	3
EDSP-4900 Student Teaching and Seminar: SpE.....	12
<b>Total</b> .....	<b>30</b>

**Special Education/Early Childhood Education  
Dual Licensure Option**

Special education majors who wish to qualify for early childhood education licensure (pre-K to grade 3, all subjects) may do so by adding the following courses. A combined special education/early childhood education student teaching (EDUC-4950) must be substituted for EDSP-4900 Student Teaching and Seminar: Special Education. The early childhood and special education student teaching experiences will be combined in a single semester-long experience.

<b>Additional courses for dual licensure .....</b>	<b>14.5</b>
EDEC-2100 Art and Music for Early Childhood .....	2
EDEC-3500 Early Childhood Education .....	3
EDEC-3600 Issues in Early Childhood Administration .....	3
EDEC-3900 Field Experience in Early Childhood Education ...	1
ESED-2900 Health and Movement Education.....	2
GSCI-1010 Principles of Earth Science .....	3.5

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

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

*First year:*

*Fall semester*

BTGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech .....	3
EDUC-1000 The Education Profession.....	2
EDUC-1800 Principles of Mathematics I .....	3
EDUC-2100 Technology in the Classroom .....	2
GBIO-1000 Principles of Biology .....	3.5
<b>Total .....</b>	<b>16.5</b>

*Spring semester*

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
<b>Total .....</b>	<b>17.5</b>

*Summer*

EDUC-2400 Children's Literature.....	3
LIT-2XXX Literature Elective .....	3
<b>Total .....</b>	<b>6</b>

*Second year:*

*Fall semester*

BTGE-2740 New Testament Literature .....	3
EDEC-2300 Phonics and the Reading Process .....	4
EDSP-2500 Survey of Intellectual and Developmental Disabilities ...	1
EDUC-1050 Preliminary Student Involvement.....	0
GSCI-2010 Physical Science for Teachers.....	4
Introduction to Education Block (5 credit hours as follows):	
EDSP-2000 Teaching Children with Exceptionalities .....	1
EDSP-2050 Field Experience: Exceptional Learning Needs .....	1
EDUC-2000 Introduction to Diverse Learners .....	2
EDUC-2200 Multicultural Field Experience .....	1
<b>Total .....</b>	<b>17</b>

*Spring semester*

BTGE-3755 Theology I .....	3
EDEC-2100 Art and Music for Early Childhood .....	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 the Christian Life .....	2
<b>Total .....</b>	<b>18</b>

*Summer*

HUM-1400 Introduction to the Humanities.....	3
Global Studies Elective.....	3
<b>Total .....</b>	<b>6</b>

*Third year:*

*Fall semester*

Methods I (17 credit hours as follows):	
EDEC-3500 Early Childhood Education .....	3
EDEC-3600 Issues in Early Childhood Administration .....	3
EDEC-3800 Teaching Reading and Language Arts: EC.....	4
EDEC-3900 Field Experience in Early Childhood Education .....	1
EDSP-3150 Intervention and Diagnosis in Reading for Special Educators.....	3
EDSP-3950 Special Education Clinical: EC.....	3
<b>Total .....</b>	<b>17</b>

*Spring semester*

History Elective.....	3
Methods II (15 credit hours as follows):	
EDEC-4000 Reading in the Content Area: EC.....	2
EDEC-4100 Teaching Mathematics: EC .....	3
EDEC-4200 Teaching Science: EC.....	3
EDEC-4300 Teaching Social Studies: EC.....	3
EDSP-4450 Special Education Clinical: MC .....	3
EDUC-3200 Faith and Learning Alignment .....	1
<b>Total .....</b>	<b>18</b>

*Summer (Online)*

EDSP-3500 Special Education Law .....	1
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*Fourth year:*

*Fall semester*

BTGE-3765 Theology II .....	3
Special Education Block (15 credit hours as follows):	
EDSP-2700 Teaching Children Mild to Moderate Disabilities .....	2
EDSP-4100 Adaptive Curriculum and Instruction .....	2
EDSP-4150 Career and Occupational Training.....	2
EDSP-4300 Behavior and Instructional Management .....	3
EDSP-4400 Assessment in Special Education.....	3
EDSP-4550 Special Education Clinical: AYA .....	3
<b>Total .....</b>	<b>18</b>

*Spring semester*

EDUC-4950 Student Teaching and Seminar: SpE .....	12
<b>Total .....</b>	<b>12</b>



## Adolescent/Young Adult and Multi-Age Licensure Programs

The **adolescent/young adult licensure programs** prepare teachers to work with students in grades 7–12. The Ohio Department of Education has approved Cedarville University to issue adolescent/young adult licenses for teachers in the areas of integrated science (comprehensive), integrated life science, integrated physical science, integrated physics, integrated chemistry, integrated mathematics, integrated language arts, and integrated social studies. In addition to approving the previously listed programs, the Association of Christian Schools International has also approved Cedarville to offer ACSI certification in integrated Bible.

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

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

<b>Teacher Education Core</b> .....	<b>12</b>
EDSP-2000 Teaching Children with Exceptionalities .....	1
EDSP-2050 Field Experience: Exceptional Learning Needs ....	1
EDUC-1000 The Education Profession.....	2
EDUC-1050 Preliminary Student Involvement .....	0
EDUC-2000 Introduction to Diverse Learners .....	2
EDUC-2100 Technology in the Classroom .....	2
EDUC-2200 Multicultural Field Experience .....	1
EDUC-2500 Educational Psychology .....	3

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

### Principles of Teaching Block (all AYA majors and MA Spanish)

*The following courses are to be taken together just prior to the student teaching experience.*

EDSE-4100 Principles of Teaching: AYA .....	5
<sup>1</sup> EDSE-4000 Reading in the Content Area: AYA .....	3
or EDUC-4000 Reading in the Content Area .....	3
EDSE-4450 Adolescent/Young Adult Clinical Experience.....	3
EDSP-4250 Communication, Collaboration, and Inclusion.....	2
EDUC-3200 Faith and Learning Alignment .....	1

#### Additional Requirements:

EDUC-3100 Philosophical Foundations of Education .....	3
EDSE-4900 Student Teaching and Seminar: AYA .....	12
(or EDUC-4900 Student Teaching and Seminar: MA .....	12)

<sup>1</sup>Adolescent and young adult integrated language arts majors do not take this course.





# School of Engineering and Computer Science

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## Mission Statement

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

## Programs of Study

The School of Engineering and Computer Science offers the following programs of study:

### Majors

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

### Minors

- Biomedical Engineering
- Computer Science

### Special Programs

- Cooperative Education Program
- Engineering Honors Program

## Accreditation

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

## Registration as a Professional Engineer

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

## Personal Requirements

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

## School Requirements

### New Students

Students who excel in science and mathematics, enjoy solving real-life problems, and wish to serve others have the highest potential for careers in engineering and computer science. Entering students are required to have an ACT composite score of at least 22 (or an SAT of at least 1030) in order to declare a major in the department. We have also determined that incoming engineering students should present an ACT Math subscore greater than 24 or an SAT Math sub-score greater than 590 to be successful in engineering. To assist the incoming students who desire an engineering major but do not meet our identified

math scores to succeed, such students will be identified as "Engineering" students for the first year rather than by one of the specific engineering degree programs. Students identified as "Engineering" students will receive closer academic monitoring during their first year and will be permitted to declare a specific engineering program major after successfully completing both Calculus I (MATH-1710) and Digital Logic Design (EGCP-1010) at Cedarville with a minimum grade of 'C'. We strongly encourage all students interested in engineering to read "Engineering: Is it a four- or five-year degree program?," which outlines the importance of being ready to enter Calculus I at the start of our engineering programs as well as some options to help prepare for calculus.

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

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

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

## Retention Requirement

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

### Computer Engineering (CpE)

To advance into the junior year, CpE majors must earn a combined GPA of at least 2.0 in the following engineering and computer science courses: CS-1210, 1220, 2210, EGCP-1010, EGGN-1110, EGEE-2010, and EGME-1810 and 2570.

In addition, CpE majors must earn a combined GPA of at least 2.0 in the following cognate courses: MATH-1710, 1720, 2510, 2740 and MATH-3110, and PHYS-2110 and 2120.

### Electrical Engineering (EE)

To advance into the junior year, EE majors must earn a combined GPA of at least 2.0 in the following engineering courses: EGCP-1010, EGGN-1110, EGEE-2010, 2110, and EGME-1810, 2570.

In addition, EE majors must earn a combined GPA of at least 2.0 in the following cognate courses: CS-1210, CS-1220, MATH-1710, 1720, 2710, 2740, and PHYS-2110 and 2120.

### Mechanical Engineering (ME)

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

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

## Graduation Requirements

1. Earn a cumulative GPA of at least 2.0 in all major and cognate courses.
2. All engineering majors must take an assessment exam similar to the NCEES FE exam.
3. CS majors must achieve a grade of at least a "C-" in the following courses: CS-1210, 1220, 2210, 3410, 4810, MATH-1710, and MATH 2510 (or MATH-2210 and MATH-3560).

## Technical Resources

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

## Cocurricular Opportunities

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

## Career Opportunities

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

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

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

## Engineering Educational Objectives

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

1. They are successful in professions related to their fields of study.
2. They are successful in graduate-level education.
3. They continue to develop professionally and remain current in their fields.
4. They make sound professional and ethical decisions based upon biblical truths.
5. They continue to grow in service and support of Christian ministries, both in their communities and around the world.



## Educational Philosophy for Engineering and Computer Science Programs

All of our programs are designed to give our graduates a solid background in their technical fields of choice. Our programs include a strong theoretical foundation as well as significant hands-on application. Each program also includes a senior capstone design experience. The three engineering programs share a common philosophy of program outcomes which are consistent with the ABET engineering criteria. Similarly, our computer science program philosophy is consistent with the ABET computer science criteria.

## Faculty

**Robert Chasnov**, *Dean*; Senior Professor of Engineering.

*Education:* B.S., Rensselaer Polytechnic Institute, 1978; M.S., University of Illinois, 1980; Ph.D., University of Illinois, 1983; registered professional engineer. At Cedarville since 1991.

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

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

**Timothy Dewhurst**, Senior Professor of Mechanical Engineering. *Education:* B.S.M.E., Cornell University, 1980; M.Eng.M., Cornell University, 1981; Ph.D., Cornell University, 1985; registered professional engineer. At Cedarville since 1996.

**Patrick Dudenhofer**, Assistant Professor of Computer Science. *Education:* B.S., Cedarville University, 2004; M.S. Wright State University, 2011. At Cedarville since 2014.

**Vicky Fang**, Associate Professor of Computer Engineering. *Education:* B.S.E.E., Shanghai Jiao Tong University, 1992; M.S.E.T., Pittsburg State University, 1998; Ph.D., The University of Akron, 2004. At Cedarville since 2004.

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

**Seth Hamman**, Assistant Professor of Computer Science. *Education:* B.A., Duke University, 2002; M.S. Yale University, 2011. At Cedarville since 2012.

**Frederick Harmon**, Associate Professor of Electrical Engineering. *Education:* B.S.E.E., Embry-Riddle Aeronautical University, 1992; M.S.E.E., Air Force Institute of Technology, 1996; Ph.D., University of California-Davis, 2005. At Cedarville since 2014.

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

**Darren Holland**, Assistant Professor of Mechanical Engineering. *Education:* B.S.M.E., Cedarville University, 2006; M.S.M.E., University of Michigan, 2009; Ph.D., University of Michigan, 2012. At Cedarville since 2013.

**Jay Kinsinger**, Assistant Professor of Mechanical and Biomedical Engineering. *Education:* B.S., Mechanical Engineering Technology and B.S., Manufacturing Technology, University of Dayton, 1992; M.S., Biomedical Engineering, Wright State University, 2000. At Cedarville since 1999.

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

**Timothy Norman**, Professor of Mechanical and Biomedical Engineering. *Education:* B.S.A.A.E., Purdue University, 1982; M.S.A.A.E. Purdue University, 1986; Ph.D., Purdue University, 1989; registered professional engineer. At Cedarville since 2003.

**Zhaohui (George) Qin**, Assistant Professor of Mechanical Engineering. *Education:* B.S., Shanghai Jiaotong University, 1996; M.S., Shanghai Jiaotong University, China, 1999; Ph.D., Iowa State University, 2007. At Cedarville since 2012.

**Keith Shomper**, Professor of Computer Science. *Education:* B.A., University of Northern Colorado, 1983; M.S., Air Force Institute of Technology, 1984; Ph.D., The Ohio State University, 1993. At Cedarville since 2003.

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

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

**Timothy Tuinstra**, Associate Professor of Electrical Engineering. *Education:* B.S.E.E., Cedarville University, 1996; M.S.E.E., University of Dayton, 1998; Ph.D., University of Dayton, 2008. At Cedarville since 2002.

**Lawrence Zavodney**, Senior Professor of Mechanical Engineering. *Education:* B.S.M.E., The University of Akron, 1974; M.S.M.E., The University of Akron, 1977; Ph.D., Virginia Polytechnic Institute and State University, 1987; registered professional engineer. At Cedarville since 1992.

#### Technical Support Staff

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

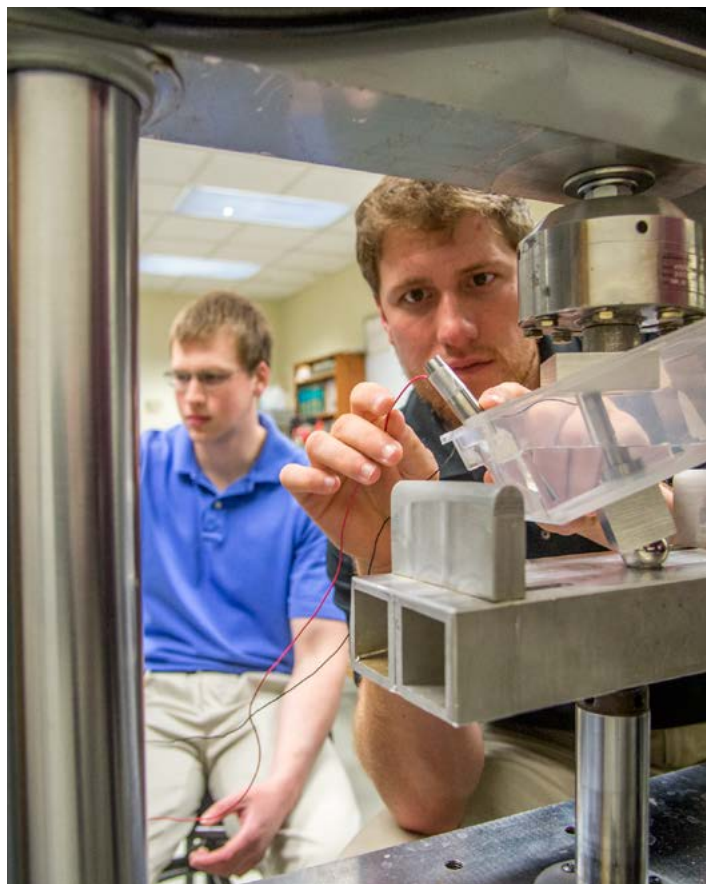
**James Landers**, Computer and Electrical Engineering Technician, *Education:* Gateway Electronics, Microsoft, FCC. At Cedarville since 2005.

**Wayne Leffingwell**, Project Lab Steward. At Cedarville since 2009.

## Engineering and Computer Science Advisory Council

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

*Ronald Baker, Hi-Tech Aero Spares*  
*Carl Bertsche, Jr., Production Engineering Company*  
*Rob Bouwens, Rolls Royce Corporation*  
*Joe Buonodono, Johnson Controls, Inc.*  
*Gary Clasby, Duriron Company, Inc.*  
*Tom Curran, WPAFB, Aero Propulsion and Power, retired*  
*William Engstrom, Engstrom Foundation*  
*Stephen Harris, Rixan Associates, Inc.*  
*John Harshbarger, Video Instruments*  
*Richard Holmes, Holmes and Mays*  
*Skip Holmes, Procter and Gamble*  
*Dan Kerr, GM Specialty Cars Division*  
*Ed Krupka, Burris Logistics*  
*Joe Mays, Holmes and Mays*  
*Walker Mitchell, Mitchell Consulting*  
*Bob Porter, Xetron (Northrop Grumman)*  
*Dan Rogers, Duotech Services*  
*Greg Smith, Northrop Grumman Space Technology*  
*Terry Smith, Rittal Corporation*  
*Jay Tieber, Ohio Department of Development*  
*Don Wilkinson, ODL, Inc.*



## Computer Engineering

Course requirements for the **Bachelor of Science in Computer Engineering (B.S.Cp.E.) degree** are comprised of the following and may be modified by the department Chair.

Course requirements involve 70 semester hours including:

CS-1210 C++ Programming.....	2
CS-1220 Object Oriented Design with C++.....	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-4810 Computer Engineering Senior Design I.....	4
*EGCP-4820 Computer Engineering Senior Design II.....	4
EGEE-2010 Circuits.....	5
EGEE-3110 Linear Systems.....	3
EGEE-3210 Electronics I.....	3
EGGN-1110 The Engineering Profession.....	1
<sup>1</sup> EGGN-3110 Professional Ethics.....	3
EGGN-4010 Senior Seminar.....	0
EGME-1810 Engineering Graphics.....	1
EGME-2570 Statics and Dynamics.....	3
EGME-3170 Thermal Systems.....	2
MATH-2510 Discrete Math: Computer Science.....	3
**Three Technical Electives (must include a 4000-level course)....	9

### Required Cognates ..... 27.5

<sup>2</sup> CHEM-1050 Chemistry for Engineers.....	3.5
<sup>3</sup> MATH-1710 Calculus I.....	5
MATH-1720 Calculus II.....	5
MATH-2740 Differential Equations.....	3
MATH-3110 Probability and Statistics I.....	3
PHYS-2110 General Physics I.....	4
PHYS-2120 General Physics II.....	4

<sup>1</sup>Satisfies humanities general education requirements

<sup>2</sup>Satisfies physical science general education requirements

<sup>3</sup>Satisfies mathematics general education requirements

\*Capstone Course

\*\*Technical electives must be selected from EGCP or CS courses of 3000-level or higher that are not already prescribed in the program. At least one technical elective must be a 4000-level course.



## Computer Engineering Major Curriculum Summary

Proficiency Requirements.....	0-5
General Education Requirements.....	41.5
Comprehensive Computer Engineering Requirements.....	70
Required Cognates.....	27.5
<b>Total (minimum, not including proficiency).....</b>	<b>139</b>

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

### Suggested Four-Year Curriculum for a Major in Computer Engineering

#### First year:

BTGE-1720 Spiritual Formation.....	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
<b>Total.....</b>	<b>33.5</b>

#### Second year:

BTGE-2730 Old Testament Literature.....	3
CS-2210 Data Structures Using Java.....	3
EGEE-2010 Circuits.....	5
EGME-2570 Statics and Dynamics.....	3
ENG-1400 Composition.....	3
MATH-2510 Discrete Math: Computer Science.....	3
MATH-2740 Differential Equations.....	3
MATH-3110 Probability and Statistics I.....	3
PEF-1990 Physical Activity and the Christian Life.....	2
PHYS-2120 General Physics II.....	4
<b>Total.....</b>	<b>32</b>

#### Third year:

BTGE-2740 New Testament Literature.....	3
CS-3310 Operating Systems.....	3
CS-3410 Algorithms.....	3
EGCP-2120 Microcontrollers.....	3
EGCP-3010 Advanced Digital Logic Design.....	3
EGCP-3210 Computer Architecture.....	3
EGEE-3110 Linear Systems.....	3
EGEE-3210 Electronics I.....	3
EGGN-3110 Professional Ethics.....	3
HUM-1400 Introduction to Humanities.....	3
LIT-2XXX Literature Elective.....	3
Technical Electives.....	3
<b>Total.....</b>	<b>36</b>

#### Fourth year:

BTGE-3755 Theology I.....	3
BTGE-3765 Theology II.....	3
EGCP-4210 Advanced Computer Architecture.....	3
EGCP-4810 Computer Engineering Senior Design I.....	4
EGCP-4820 Computer Engineering Senior Design II.....	4
EGGN-4010 Senior Seminar.....	0
EGME-3170 Thermal Systems.....	2
GSS-1100 Politics and American Culture.....	3
Biology Elective.....	3.5
Technical Electives.....	6
History Elective.....	3
Social Science/Global Awareness Elective.....	3
<b>Total.....</b>	<b>37.5</b>



## Computer Science — Bachelor of Science

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

*Course requirements involve 57 semester hours including:*

<b>Computer Science Core Requirements</b> .....	<b>51</b>
CS-1210 C++ Programming.....	2
CS-1220 Object-Oriented Design Using C++ .....	3
CS-2210 Data Structures Using Java .....	3
CS-3220 Web Applications .....	3
CS-3310 Operating Systems .....	3
CS-3350 Foundations of Computer Security .....	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
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-2510 Discrete Mathematics for Computer Science.....	3
Or MATH-2210 Logic and Method of Proof .....	3
and MATH-3560 Discrete Math: Combinatorics .....	3
MATH-3110 Probability and Statistics I .....	3
<b>Technical electives chosen from the following.....</b>	<b>6</b>
Any 3000- or 4000-level computer science course .....	3
EGCP-3010 Advanced Digital Logic Design .....	3
EGCP-4210 Advanced Computer Architecture.....	3
MATH-3500 Number Theory .....	3
MATH-3610 Linear Algebra.....	3
MATH-3760 Numerical Analysis.....	3
Other courses with pre-approval of department Chair	
<b>Required Cognates.....</b>	<b>21.5</b>
CHEM-1050 Chemistry for Engineers .....	3.5
(or CHEM-1110 General Chemistry I.....)	4
MATH-1710,1720 Calculus I and II .....	10
PHYS-2110, 2120 General Physics I and II.....	8
<b>Optional Computer Science Tracks** .....</b>	<b>9–12</b>
Replace 6 hours of technical electives with 9–12 hours from one of the following computer science track	
<b>Computer Graphic Track</b>	
CS-4710 Computer Graphics.....	3
Choose one of the following groups:	
Group 1	
BRDM-2110 Video Technical Training.....	3
BRDM-3310 Advanced Video Production.....	3
Group 2	
BRDM-2350 Introduction to Graphics for TV and Film.....	3
BRDM-3630 Principles of Computer Animation .....	3
BRDM-3765 Animation Practicum.....	1
<b>Graphic Design Track</b>	
Any 3000- or 4000-level computer science course .....	3
VCD-1100 Digital Imaging: Adobe Photoshop .....	3
VCD-2200 Typography .....	3
VCD-2400 Graphic Design I.....	3
<b>Hardware Track</b>	
EGCP-2120 Microcontrollers.....	3
EGCP-3010 Advanced Digital Logic Design.....	3
EGCP-4210 Advanced Computer Architecture .....	3
<b>Operations Research Track</b>	
MATH-3240 Introduction to Operations Research.....	3
MATH-3610 Linear Algebra.....	3
MATH-4110 Probability and Statistics II.....	3

\*Capstone Course

\*\*The optional computer science tracks allow specialization within the degree by focusing the technical elective hours into a designated area.

### Computer Science Major (B.S.) Curriculum Summary

Proficiency Requirements .....	0–5
General Education Requirements.....	41.5
Computer Science Major Requirements .....	57–63
Required Cognates .....	21.5
Electives .....	2–8
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

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

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

#### First year:

BTGE-1720 Spiritual Formation .....	3
BTGE-2730 Old Testament Literature.....	3
CS-1210 C++ Programming.....	2
CS-1220 Object Oriented Design Using C++ .....	3
EGCP-1010 Digital Logic Design .....	3
ENG-1400 Composition.....	3
MATH-1710, 1720 Calculus I and II .....	10
PEF-1990 Physical Activity and the Christian Life .....	2
PHYS 2110 General Physics I.....	4
<b>Total .....</b>	<b>33</b>

#### Second year:

BTGE-2740 New Testament Literature .....	3
BTGE-3755 Theology I.....	3
CS-2210 Data Structures Using Java .....	3
CS-3350 Foundations of Computer Security .....	3
COM-1100 Fundamentals of Speech.....	3
EGCP-3210 Computer Architecture .....	3
MATH-2510 Discrete Mathematics for Computer Science.....	3
MATH-3110 Probability and Statistics I .....	3
PHYS 2120 General Physics II.....	4
Electives .....	3
<b>Total .....</b>	<b>31</b>

#### Third year:

BTGE-3765 Theology II.....	3
CS-3220 Web Applications .....	3
CS-3310 Operating Systems .....	3
CS-3410 Algorithms.....	3
CS-3510 Compiler Theory and Practice .....	3
CS-3610 Database Organization and Design.....	3
CS Technical Electives .....	3
EGCP-4310 Computer Networks.....	3
GSS-1100 Politics and American Culture.....	3
HUM-1400 Introduction to the Humanities.....	3
History Elective.....	3
<b>Total .....</b>	<b>33</b>

#### Fourth year:

CHEM-1050 Chemistry for Engineers .....	3.5
CS-4810, 4820 Software Engineering I and II .....	7
CS Technical Electives .....	3
EGGN-3110 Professional Ethics .....	3
EGGN-4010 Senior Seminar .....	0
GBIO-1000 Principles of Biology .....	3.5
LIT-2XXX Literature Elective .....	3
Social Science/Global Awareness Elective .....	3
Electives*** .....	5
<b>Total .....</b>	<b>31</b>

\*\*\*The optional computer science tracks allow specialization within the degree by focusing the technical elective hours into a designated area and shifting three general education elective hours into the technical electives.

## Electrical Engineering

Course requirements for the **Bachelor of Science in Electrical Engineering (B.S.E.E.) degree** are comprised of the following and may be modified by the department Chair.

Course requirements involve 70 semester 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 .....	2
EGEE-4410 Feedback Control Systems .....	4
*EGEE-4810 Electrical Engineering Senior Design I .....	4
*EGEE-4820 Electrical Engineering Senior Design II .....	4
EGGN-1110 The Engineering Profession .....	1
<sup>1</sup> EGGN-3110 Professional Ethics .....	3
EGGN-4010 Senior Seminar .....	0
EGME-1810 Engineering Graphics .....	1
EGME-2570 Statics and Dynamics .....	3
EGME-3170 Thermal Systems .....	2
<sup>2</sup> Three Technical Electives (must include one 4000-level course) .....	9

**Required Cognates**..... 27.5

<sup>3</sup> CHEM-1050 Chemistry for Engineers .....	3.5
<sup>4</sup> MATH-1710 Calculus I .....	5
MATH-1720 Calculus II .....	5
MATH-2710 Calculus III .....	3
MATH-2740 Differential Equations .....	3
PHYS-2110 General Physics I .....	4
PHYS-2120 General Physics II .....	4

<sup>1</sup>Satisfies humanities general education requirements.  
<sup>2</sup>Technical electives must have EGXX designation at 3000- or higher level.  
<sup>3</sup>Satisfies physical science general education requirements.  
<sup>4</sup>Satisfies mathematics general education requirements.  
 \*Capstone Course

### Electrical Engineering Major Curriculum Summary

Proficiency Requirements .....	0–5
General Education Requirements .....	41.5
Comprehensive Electrical Engineering Requirements .....	70
Required Cognates .....	27.5
<b>Total (minimum, not including proficiency) .....</b>	<b>139</b>



## Suggested Four-Year Curriculum for a Major in Electrical Engineering

### First year:

BTGE-1720 Spiritual Formation .....	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
<b>Total .....</b>	<b>33.5</b>

### 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 the Christian Life .....	2
PHYS-2120 General Physics II .....	4
<b>Total .....</b>	<b>35</b>

### 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 .....	3
LIT-2XXX Literature Elective .....	3
Social Science/Global Awareness Elective .....	3
<b>Total .....</b>	<b>36</b>

### Fourth year:

BTGE-3755 Theology I .....	3
BTGE-3765 Theology II .....	3
EGEE-4110 Digital Signal Processing .....	2
EGEE-4410 Feedback Control Systems .....	4
EGEE-4810 Electrical Engineering Senior Design I .....	4
EGEE-4820 Electrical Engineering Senior Design II .....	4
EGGN-4010 Senior Seminar .....	0
EGME-3170 Thermal Systems .....	2
Biology Elective .....	3.5
Technical Electives .....	6
History Elective .....	3
<b>Total .....</b>	<b>34.5</b>

## Mechanical Engineering

Course requirements for the **Bachelor of Science in Mechanical Engineering (B.S.M.E.) degree** are comprised of the following and may be modified by the department Chair.

Course requirements involve 70 semester hours including:

EGCP-1010 Digital Logic Design .....	3
EGEE-2050 Circuits and Instrumentation.....	4
EGEE-3530 Electrical Machines .....	3
EGGN-1110 The Engineering Profession .....	1
<sup>1</sup> 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

<sup>2</sup> CHEM-1050 Chemistry for Engineers.....	3.5
<sup>3</sup> MATH-1710 Calculus I.....	5
MATH-1720 Calculus II.....	5
MATH-2710 Calculus III.....	3
MATH-2740 Differential Equations.....	3
PHYS-2110 General Physics I.....	4
PHYS-2120 General Physics II.....	4

<sup>1</sup>Satisfies humanities general education requirements.

<sup>2</sup>Satisfies physical science general education requirements.

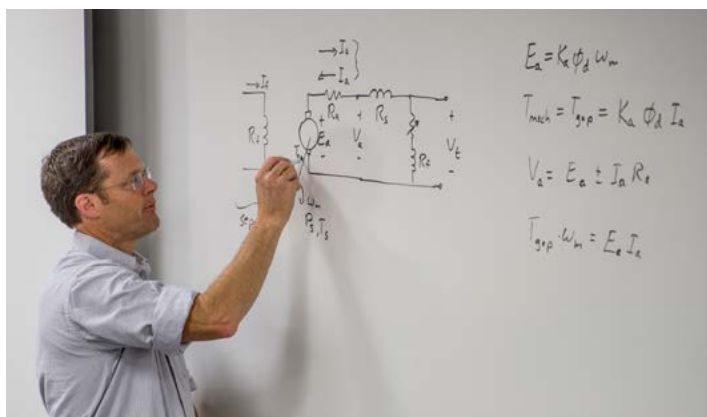
<sup>3</sup>Satisfies mathematics general education requirements.

\*ECON-2110Essentials of Economics required Social Science elective

\*\*Capstone Course

### Mechanical Engineering Major Curriculum Summary

Proficiency Requirements.....	0-5
General Education Requirements.....	41.5
Comprehensive Mechanical Engineering Requirements.....	70
Required Cognates.....	27.5
<b>Total (minimum, not including proficiency) .....</b>	<b>139</b>



## Suggested Four-Year Curriculum for a Major in Mechanical Engineering

First year:

BTGE-1720 Spiritual Formation .....	3
BTGE-2730 Old Testament Literature.....	3
CHEM-1050 Chemistry for Engineers .....	3.5
EGCP-1010 Digital Logic Design .....	3
EGGN-1110 The Engineering Profession .....	1
EGME-1810 Engineering Graphics.....	1
ENG-1400 Composition.....	3
MATH-1710 Calculus I .....	5
MATH-1720 Calculus II.....	5
PEF-1990 Physical Activity and the Christian Life .....	2
PHYS-2110 General Physics I .....	4
<b>Total .....</b>	<b>33.5</b>

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
<b>Total .....</b>	<b>35</b>

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
<b>Total .....</b>	<b>34</b>

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
<b>Total .....</b>	<b>36.5</b>

## Minors

### Biomedical Engineering Minor

The **biomedical engineering minor** will help prepare computer, electrical, and mechanical engineering students for careers in the biomedical engineering field, graduate study in biomedical engineering, or medical school. While not required for the emphasis in biomedical engineering, students intending to pursue medical school should have two semesters of general chemistry and organic chemistry, as well as a semester of zoology, cell biology, and junior level biochemistry. 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
<b>Choose one elective from the following .....</b>	<b>2–4</b>
EGGN-3710 Biomedical Engineering Research .....	2
*Health Science elective .....	3–4
Engineering elective.....	2–3
<b>Choose one elective from the following .....</b>	<b>3</b>
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 an engineering technical elective, approved by the Dean or Assistant Dean.

### Computer Science Minor

The **computer science minor** allows students to take a focused set of courses which will enable them to effectively employ programming within their own discipline. Proficiency in computer programming is a skill which can be a strong asset in virtually every discipline.

*Course requirements for the computer science minor involve 27 semester hours including:*

CS-1210 C++ Programming .....	2
CS-1220 Object-Oriented Design Using C++ .....	3
CS-2210 Data Structures Using JAVA .....	3
CS-3410 Algorithms .....	3
EGCP-1010 Digital Logic Design .....	3
MATH-1710, 1720 Calculus I and II .....	10
<b>Electives chosen from the following .....</b>	<b>3</b>
EGEE-3370 Probability and Random Processes for Engineers .....	3
MATH-3110 Probability and Statistics I.....	3

## Special Programs

### Cooperative Education Program

The **cooperative education program** option has been a traditional program option for engineering education for the last



100 years. The co-op program offers students who want to work an opportunity to gain industrial experience as part of their formal education. Co-op is the established program that the industry has developed with academic institutions to provide supervised work experiences for students. Engineering and computer science students who select this option will require an extra year to obtain their B.S. degree; they will receive a certificate stating that they have satisfactorily completed the co-op program option.

*Course requirements for the cooperative education program 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 122). Admission can occur in either the freshman or sophomore year. Admission to the engineering honors program occurs after the student completes the sophomore year. A cumulative GPA of 3.5 or higher is required for participation.

Engineering course work involves taking the honors version of three courses and one additional engineering elective course. These engineering honors courses are the regularly scheduled courses and are taken with other students, but they have enrichment opportunities and exposure to advanced topics through special assignments and extra sessions with the professor.

*Course requirements for the engineering honors program include:*

HON-1010 and 1020 Making of the Modern Mind (substitutes for HUM-1400 and HIST elective).....	10
EGXX-4XXX Additional Engineering Elective .....	3

Honors version of the following courses:

*Requirements for computer engineering majors include:*

EGCP-3010 Advanced Digital Logic Design.....	3
EGCP-3210 Computer Architecture .....	3
EGEE-3210 Electronics I .....	3

*Requirements for electrical engineering majors include:*

EGEE-3210 Electronics I .....	3
EGEE-3330 Communications Theory.....	4
EGEE-4410 Feedback Controls.....	4

*Requirements for mechanical engineering majors include:*

EGME-3110 Thermodynamics .....	5
EGME-3850 Mechanical Design .....	3
EGME-4660 Automatic Controls .....	3

Students who earn a “B” or higher in HON-1010 and 1020, earn a “B” or higher in all engineering honors courses, and graduate with a cumulative GPA of 3.5 or higher will earn the “engineering honors graduate” designation.



# Department of English, Literature, and Modern Languages

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## Mission Statement

The Cedarville University Department of English, Literature, and Modern Languages seeks to:

- Instruct students to write effectively.
- Encourage students to read and appreciate literature.
- Teach students to evaluate literature intelligently.
- Provide a general knowledge of the chronology and the social and intellectual background of English, American, and Spanish literature.
- Prepare students for graduate work in the fields of English, and Spanish.
- Prepare teachers of English and Spanish.

## Personal Requirements

Students who choose English as a major are expected to acquire a high level of competency in the discipline of the English language. Those who wish to study foreign language will benefit from taking foreign language in high school. No previous foreign language experience is required to take elementary-level foreign language.

## Department Requirements

To graduate with a major from the Department of English, Literature, and Modern Languages, students must earn at least a 2.0 cumulative average in all courses required for their major and a “C-” or higher in all courses taken to meet specific requirements in their major.

## Programs of Study

The Department of English, Literature, and Modern Languages offers the following programs:

### Majors

- English
- Language Arts Education — Integrated
- Linguistics
- Spanish Education — Multi-Age
- Spanish

### Minors

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

## Cocurricular Opportunities

### German Club

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

### Miracle

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

### Spanish Club

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

### The Cedarville Review

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

### Sigma Tau Delta

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

### International Study Opportunities

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

Two of the most popular programs for English, literature, and modern languages majors are Cedarville University in Spain and the Summer Study Abroad program in Oxford.

*Cedarville University in Spain*

[cedarville.edu/academics/internationalprograms/spainsemester](http://cedarville.edu/academics/internationalprograms/spainsemester)

In cooperation with the Institute for Spanish Studies (ISS), Cedarville students have the opportunity to study in a customized program during either the fall or spring semesters or one or two summer sessions in Valencia, Spain. In addition to taking courses with ISS, students will take courses with Cedarville professor, Dr. Andrew Wiseman.

### Cedarville Summer Abroad Programs

International Programs is continually working with professors who desire to teach a specialized course abroad. Each summer there are opportunities for students to take general education and upper-level courses abroad with Cedarville professors. These courses are ideal for students whose majors do not have the flexibility of a semester abroad. Locations vary each summer, but usually are in one or two of the following locations: China, France, Germany, Greece, Ireland, Israel, Oxford, and Spain.

## Technical Resources

Cedarville’s **Writing Center** serves the University community as a place to build skills for better writing across the disciplines. It also functions as a training ground for students who tutor there, assist in administration, or aid faculty with research projects related to writing centers.

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

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



## Career Opportunities

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

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

## Faculty

**Kevin Heath**, *Chair*; Professor of English. *Education*: B.A., Truman State University, 1986; M.A., Michigan State University, 1988; graduate study, Grand Rapids Baptist Seminary, 1989; Ph.D., University of Cincinnati, 1999. At Cedarville since 1990.

**Scott Calhoun**, Professor of English. *Education*: B.A., Cedarville University, 1995; M.A., Bowling Green State University, 1997; Ph.D., Bowling Green State University, 1999. At Cedarville since 1999.

**Daniel Clark**, Associate Professor of English. *Education*: B.A., Tennessee Temple University, 1988; M.A., University of Tennessee at Chattanooga, 1993. At Cedarville since 1999.

**Donald Deardorff II**, Professor of English. *Education*: B.A., Gettysburg College, 1989; M.A., University of Maryland, 1990; Ph.D., University of Rhode Island, 1995. At Cedarville since 1996.

**Melissa Faulkner**, Associate Professor of English. *Education*: B.A. English and Political Science, Wright State University, 2001; M.A. English, Composition and Rhetoric, Wright State University, 2003; Ph.D. English, Miami University of Ohio, 2007. At Cedarville since 2007.

**Louise Grandouiller**, Assistant Professor of French. *Education*: B.A., Indiana University, 1975; M.A., University of Texas at Arlington, 1980. At Cedarville since 2009.

**Barbara Loach**, Professor of Spanish. *Education*: B.A., Cedarville University, 1977; M.A., Bowling Green University, 1978; M.A., Wright State University, 1995; Ph.D., The Ohio State University, 1990. At Cedarville since 1978.

**Isaac Mayeux**, Assistant Professor of English. *Education*: B.A., Cedarville University, 2009; M.A., University of Dayton, 2011. At Cedarville since 2015.

**Mary McCulley**, Assistant Professor of English. *Education*: B.A., Texas State University-San Marcos, 2006; M.A., Texas State University-San Marcos, 2008; Ph.D., Texas Christian University, (ABD). At Cedarville since 2015.

**Cynthia Messer**, Associate Professor of English. *Education*: B.A., Cedarville University, 1994; M.A., Wright State University, 1998. At Cedarville since 1998.

**Julie Moore**, Associate Professor of Literature. *Education*: B.A., Cedarville University, 1987; M.A., University of Dayton, 1989; The Ohio Writing Project, Miami University, 1993. At Cedarville since 1999.

**Annis Shaver**, Professor of German and Applied Linguistics. *Education*: B.A., B.S., Tennessee Technological University, 1978; M.A., Louisiana University, 1980; Ph.D., University of Miami, 2004. At Cedarville since 2005.

**Nellie Sullivan**, Assistant Professor of English. *Education*: B.S., Central Michigan University, 2002; M.A., Central Michigan, 2004; M.F.A., University of Iowa, 2006. At Cedarville since 2006.

**Erin Weber**, Assistant Professor of Spanish; *Education*: MA, University of Northern Iowa, 2012, BA, Cedarville University, 2002. At Cedarville since 2011.

**Peggy Wilfong**, Professor of English. *Education*: B.A., Tennessee Temple University, 1976; M.A., University of Alabama in Huntsville, 1990; Ph.D., Indiana University of Pennsylvania, 2000. At Cedarville since 2000.

**Andrew S. Wiseman**, Associate Professor of Spanish; Director of International Programs. *Education*: B.A., University of Massachusetts at Amherst, 1992; Undergraduate Studies, Universidad de Sevilla, Spain, 1990–1991; Undergraduate Studies, Universidad Internacional SEK, Santiago, Chile, 1992–1993; M.A., Florida State University, 1995; Ph.D., Universidad de San Jose, San Jose, Costa Rica, 2002. At Cedarville since 2000.

**Michelle Wood**, Associate Professor of English. *Education*: B.A., Cedarville University, 1992; M.A., Wright State University, 1997; Ph.D., Indiana University of Pennsylvania, 2013. At Cedarville since 1995.

## Emeriti

**Harmon Bergen**, Associate Professor Emeritus of Foreign Languages. *Education*: Graduate, American Seminary of the Bible, 1946; B.A., Wheaton College, 1958; M.A., Indiana University, 1966. At Cedarville from 1958 to 1990.

**Pat Landers Dixon**, Associate Professor Emerita of English. *Education*: B.A., Tennessee Temple University, 1963; M.Ed., University of Tennessee, 1970; TESL, Wright State University, 1985. At Cedarville since 1971.

**Edward Greenwood**, Professor Emeritus of English. *Education*: Baptist Bible Institute, 1946–47; B.A., Bryan College, 1951; M.Div., Conservative Baptist Theological Seminary, 1955; graduate study, Marshall University, 1958; M.A., University of Dayton, 1966; D.A., Middle Tennessee State University, 1976. At Cedarville from 1963 to 1989.



**English**

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

<b>English Core</b> .....	<b>24</b>
ENG-2230 Advanced Composition .....	3
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-4220 English Seminar .....	3
<b>Studies in Modern Literature: Two Courses</b> .....	<b>6</b>
LIT-3380 Contemporary British Literature .....	3
LIT-3400 Contemporary Studies in World Literature .....	3
LIT-3510 Modern American Literature .....	3
LIT-4510 Recent American Literature .....	3
<b>Historical Studies in English: Two Courses</b> .....	<b>6</b>
ENG-3060 The English Language .....	3
LIT-3170 American Literature: 1820–1865 .....	3
LIT-3180 American Literature: 1865–1914 .....	3
LIT-3320 Renaissance Literature .....	3
LIT-3330 18th Century British Literature .....	3
LIT-3340 British Romantic and Victorian Literature .....	3
LIT-4450 Milton: Poetry and Selected Prose .....	3
<b>Genre Studies: Two Courses</b> .....	<b>6</b>
LIT 2120 History of Literary Criticism .....	3
LIT-2130 Dramatic Literature .....	3
LIT-3310 English Novel .....	3
LIT-3420 American Novel .....	3
LIT-4310 Literary Theory .....	3
LIT-4420 European Novel .....	3
<b>Electives in English/Literature</b> .....	<b>10</b>

\*Capstone Course

**English Major Curriculum Summary**

Proficiency Requirements .....	0–5
Other General Education Requirements .....	48–56
English Major Requirements .....	52
Electives .....	20–28
<b>Total (minimum, not including proficiency)</b> .....	<b>128</b>

**Suggested Four-Year Curriculum for a Major in English**

*First year:*

BTGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech .....	3
ENG-1400 Composition .....	3
GBIO-1000 Principles of Biology .....	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 the Christian Life .....	2
History Elective .....	3
Quantitative Elective .....	3
Social Science/Global Awareness Elective .....	3
<b>Total</b> .....	<b>32.5</b>

*Second year:*

BTGE-2730 Old Testament Literature .....	3
BTGE-2740 New Testament Literature .....	3
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
Electives .....	7
<b>Total</b> .....	<b>31.5</b>

*Third year:*

BTGE-3755 Theology I .....	3
BTGE-3765 Theology II .....	3
LIT-3350 Shakespeare .....	3
Literature Electives: Historical Studies in English .....	6
Literature Electives: Studies in Modern Literature .....	6
Electives .....	12
<b>Total</b> .....	<b>33</b>

*Fourth year:*

LIT-4220 English Seminar .....	3
Literature Electives: Genre Studies .....	6
Electives in English/Literature .....	10
Humanities Elective .....	3
Electives .....	9
<b>Total</b> .....	<b>31</b>





## Foreign Language

As students become acquainted with the language, lifestyles, and belief systems of another culture, they can develop greater insight into that culture. Knowledge of a second language can become a valuable support skill for careers in business, Christian ministry, education, government, and social services. The department provides a variety of language courses that allow students to develop basic communication skills and cultural awareness.

Guidelines for satisfying the general education requirement for foreign language are found on page 25. Students with previous language study may be eligible for test-out credit for first- and/or second-year language courses and should contact the department or the Office of the Registrar for details. Language students are also encouraged to consider the study abroad options listed under International Study Opportunities on page 21.

## Spanish

The **Spanish major** enables students to develop skills in reading, writing, speaking, and comprehending spoken Spanish to gain cultural understanding that will enable them to interact appropriately in a variety of social contexts. Studying the language, history, and literature of the Hispanic peoples provides students with opportunities to practice their language skills and gain appreciation for the contributions and values of the Hispanic culture. Students are encouraged to enhance their program by participating in an approved cross-cultural experience such as a study abroad program or missions outreach.

*Course requirements involve 34 semester hours including:*

SPAN-2710 Intermediate Spanish I .....	4
SPAN-2720 Intermediate Spanish II .....	3
SPAN-3610 Spanish Composition .....	3
SPAN-3620 Spanish Conversation .....	3
SPAN-3640 Introduction to Hispanic Literature.....	3
SPAN-4610 Advanced Spanish Grammar .....	3
*SPAN-4640 Topics in Hispanic Culture .....	3
<b>Two courses selected from the following.....</b>	<b>6</b>
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
<b>Electives in Spanish.....</b>	<b>6</b>

\*Capstone Course

### Spanish Major Curriculum Summary

Proficiency Requirements .....	0–5
Other General Education Requirements.....	48
Spanish Major Requirements .....	34
Electives .....	46
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

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

#### First year:

BTGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
GBIO-1000 Principles of Biology .....	3.5
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life .....	2
SPAN-1710 Elementary Spanish I* .....	4
SPAN-1720 Elementary Spanish II* .....	4
History Elective.....	3
Elective .....	3
<b>Total .....</b>	<b>31.5</b>

#### 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
<b>Total .....</b>	<b>31.5</b>

#### 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
<b>Total .....</b>	<b>34</b>

#### Fourth year:

SPAN-4610 Advanced Spanish Grammar .....	3
SPAN-4640 Topics in Hispanic Culture .....	3
Spanish Civilization and Literature Electives .....	6
Spanish Electives .....	6
Electives .....	13
<b>Total .....</b>	<b>31</b>

\* Elementary Spanish does not count toward the major.



## Linguistics

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

*Course requirements involve 41 semester hours including:*

<b>Linguistics requirements</b> .....	<b>27</b>
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-4100 Advanced Linguistics/Field Methods .....	3
<b>*Concentration requirements</b> .....	<b>14</b>

\* 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-2510) .....	5
MATH 2510 Discrete Math for Computer Science .....	3

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

ANTH-1800 Cultural Anthropology .....	3
COM-2050 Communication Theory .....	3
COM-2140 Intercultural Communication.....	3
COM-2300 Voices of Diversity .....	3
COM-3150 Gender, Politics and Communication .....	3
HLMU-3400 Global Music .....	3
SOC-2250 Popular Culture and Politics.....	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-3650 Learning and Memory.....	3
PYCH-3760 Cognitive Neuroscience .....	3

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

ENG-2070 Fundamentals of English Grammar .....	3
ENG-2220 Introduction to Creative Writing.....	3
ENG-2230 Advanced Composition .....	3
ENG-3010 Style and Mechanics for Writers.....	3
ENG-3070 English Grammar.....	3
ENG-3550 Writing Center Theory and Practice .....	2
HON-4155 Image and Word in a Visual Culture .....	3

### Information Technology Management

ITM-1500 Information Technology for Business.....	2
ITM-1900 Fundamentals of IT Management.....	3
ITM-2100 Database Management .....	3
ITM-2300 Introduction to Programming .....	3
ITM-3400 Data Communication and Networking.....	3

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

GMTH-1020 College Algebra.....	3
GMTH-1030 Precalculus.....	3
MATH-1710 Calculus I .....	5
MATH-1720 Calculus II .....	5
MATH-2510 Discrete Math for Computer Science .....	3
MATH-2800 LaTeX for Technical Documents .....	1
MATH-3110 Probability and Statistics I .....	3
MATH-4110 Probability and Statistics II .....	3

### Modern Languages

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

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

### TESOL

COM-2140 Intercultural Communication.....	3
ENG-3070 English Grammar.....	3
LING-3500 Methods of Teaching Foreign Language.....	2
LING-3710 TESOL Practicum.....	2

One of the following options:

One semester (4 credit hours) of elementary level modern language other than required of the linguistics major.

4-6 additional hours of one modern language at the 3000/4000 level. May be the same language used to meet the modern language requirement.

4-6 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 Practice.....	2

### Linguistics Major Curriculum Summary

Proficiency Requirements.....	0-5
Other General Education Requirements.....	48
Linguistics Major Requirements.....	41
Electives .....	39
<b>Total (minimum, not including proficiency)</b> .....	<b>128</b>

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

**Suggested Four-Year Curriculum for a Major in Linguistics**

*First Year:*

BTGE-1720 Spiritual Formation .....	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 the Christian Life .....	2
Quantitative Elective.....	3
<b>Total .....</b>	<b>32.5</b>

*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
Physical Science Elective.....	3.5
Concentration Electives.....	9
Electives .....	6
<b>Total .....</b>	<b>30.5</b>

*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
<b>Total .....</b>	<b>33</b>

*Fourth Year:*

BTGE-3765 Theology II.....	3
LING-4100 Advanced Linguistics/Field Methods .....	3
Electives .....	26
<b>Total .....</b>	<b>32</b>



## Teacher Education Licensure Program Language Arts Education — Integrated

The **integrated language arts major** prepares students to teach language arts in public and Christian schools in grades seven–12. Students who complete this curriculum will be licensed by the state of Ohio and the Association of Christian Schools International. The Ohio teaching license, through reciprocal agreements, is automatically recognized in 42 states. For additional information about teaching in other states, see the School of Education section of this catalog (page 79).

*Course requirements involve 59 hours in integrated language arts and 38 hours in professional education requirements.*

<b>Language Arts Education Core</b> .....	<b>59</b>
EDSE-3100 Contemporary Young Adult Literature .....	3
ENG-2070 Fundamentals of English Grammar .....	3
ENG-2220 Introduction to Creative Writing.....	3
ENG-2230 Advanced Composition .....	3
ENG-3010 Style and Mechanics for Writers.....	3
ENG-3060 The English Language.....	3
ENG-3070 English Grammar.....	3
ENG-3300 Developmental Reading .....	3
ENG-4200 Methods of Teaching Writing.....	2
LIT-1990 First-Year Seminar .....	3
LIT-2090 Literary Analysis.....	3
LIT-2340 Western Literature.....	3
LIT-2390 Survey of American Literature to 1900.....	3
LIT-2430 Survey of British Literature to 1800.....	3
LIT-2440 Survey of British Literature from 1800 to Present .....	3
LIT-3200 Methods of Teaching Integrated Language Arts .....	3
LIT-3350 Shakespeare.....	3
LIT-3440 Multiethnic American Literature .....	3
3XXX or 4XXX LIT, ENG or LING Electives.....	6

<b>Professional Education Requirements</b> .....	<b>38</b>
EDSE-4100 Principles of Teaching: AYA .....	5
EDSE-4450 Adolescent/Young Adult Clinical Experience.....	3
*EDSE-4900 Student Teaching and Seminar: AYA .....	12
EDSP-2000 Teaching Children with Exceptionalities .....	1
EDSP-2050 Field Experience: Exceptional Learning Needs ....	1
EDSP-4250 Communication, Collaboration, and Inclusion.....	2
EDUC-1000 The Education Profession.....	2
EDUC-1050 Preliminary Student Involvement .....	0
EDUC-2000 Introduction to Diverse Learners .....	2
EDUC-2100 Technology in the Classroom .....	2
EDUC-2200 Multicultural Field Experience .....	1
EDUC-2500 Educational Psychology .....	3
EDUC-3100 Philosophical Foundations of Education .....	3
EDUC 3200 Faith and Learning Alignment.....	1

\*Capstone Course

### Integrated Language Arts Major Curriculum Summary

Proficiency Requirements .....	0–5
Other General Education Requirements.....	45–53
Language Arts Integrated Major Requirements .....	59
Education Requirements .....	38
<b>Total (minimum, not including proficiency) .....</b>	<b>142</b>

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

#### First year:

BTGE-1720 Spiritual Formation .....	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
GSS-1100 Politics and American Culture.....	3
HUM-1400 Introduction to the Humanities.....	3
LIT-1990 First-Year Seminar .....	3
LIT-2340 Western Literature.....	3
PEF-1990 Physical Activity and the Christian Life .....	2
Social Science Elective/Global Awareness.....	3
<b>Total .....</b>	<b>34.5</b>

#### Second year:

BTGE-2730 Old Testament Literature.....	3
BTGE-2740 New Testament Literature .....	3
EDSP-2000 Teaching Children with Exceptionalities .....	1
EDSP-2050 Field Experience: Exceptional Learning Needs .....	1
EDUC-1050 Preliminary Student Involvement .....	0
EDUC-2000 Introduction to Diverse Learners .....	2
EDUC-2100 Technology in the Classroom .....	2
EDUC-2200 Multi-Cultural Field Experience .....	1
EDUC-2500 Education Psychology.....	3
ENG-3010 Style and Mechanics for Writers.....	3
ENG-3070 English Grammar.....	3
GMTH-1010 Introduction to Mathematics .....	3
LIT-2090 Literary Analysis.....	3
LIT-2390 Survey of American Literature to 1900.....	3
LIT-2430 Survey of British Literature to 1800.....	3
<b>Total .....</b>	<b>34</b>

#### Third year:

BTGE-3755 Theology I.....	3
EDSE-3100 Contemporary Young Adult Literature .....	3
EDUC-3200 Faith and Learning Alignment .....	1
ENG-2220 Introduction to Creative Writing.....	3
ENG-2230 Advanced Composition .....	3
ENG-3060 The English Language.....	3
ENG-3300 Developmental Reading .....	3
LIT-2440 Survey of British Literature from 1800 to Present .....	3
LIT-3200 Methods of Teaching Integrated Language Arts .....	3
LIT-3350 Shakespeare.....	3
LIT-3440 Multiethnic American Literature .....	3
Physical Science Elective.....	3.5
History Elective.....	3
<b>Total .....</b>	<b>37.5</b>

#### Fourth year:

BTGE-3765 Theology II .....	3
EDSE-4100 Principles of Teaching: AYA .....	5
EDSE-4450 Clinical Experience: AYA.....	3
EDSE-4900 Student Teaching and Seminar: AYA .....	12
EDSP-4250 Communication, Collaboration, and Inclusion.....	2
EDUC-3100 Philosophical Foundations of Education .....	3
ENG-4200 Methods of Teaching Writing.....	2
3XXX or 4XXX LIT, ENG, or LING Electives.....	6
<b>Total .....</b>	<b>36</b>

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

### Spanish Education — Multi-Age

The **Spanish education major** provides students with the cultural background and language skills necessary to function in the Spanish classroom and in the Spanish-speaking world. This major prepares students to teach in grades K–12 in public and Christian schools. For information about teaching in other states, see the School of Education section in this catalog.

*Course requirements involve 46 credit hours in Spanish and 45 credit hours in professional education requirements including:*

<b>Spanish Education major core courses:</b> .....	<b>34</b>
LING-3100 Principles of Language Acquisition.....	3
SPAN-2710 Intermediate Spanish I.....	4
SPAN-2720 Intermediate Spanish II.....	3
SPAN-2760 Spanish for Professionals.....	3
SPAN-3610 Spanish Composition.....	3
SPAN-3620 Spanish Conversation.....	3
SPAN-3640 Introduction to Hispanic Literature.....	3
SPAN-3680 History of Hispanics in the U.S.....	3
SPAN-4610 Advanced Spanish Grammar.....	3
SPAN-4670 Civilization and Literature of Latin America II.....	3
SPAN-4750 Civilization and Literature of Spain II.....	3
<b>Spanish Electives selected from the following:</b> .....	<b>12</b>
LING-3080 Linguistics for Language Learning.....	3
SPAN-3670 Introduction to Translation.....	2
SPAN-3690 Hispanic Film.....	3
SPAN-4640 Topics in Hispanic Culture.....	3
SPAN-4650 Civilization and Literature of Latin America I.....	3
SPAN-4680 Advanced Conversation and Composition.....	2
SPAN-4700 Independent Study in Spanish.....	1–3
SPAN-4740 Civilization and Literature of Spain I.....	3
SPAN-4790 Twentieth Century Spanish Theatre.....	3

<b>Professional Education Requirements</b> .....	<b>45</b>
EDSE-4000 Reading in the Content Area: AYA.....	3
EDSE-4100 Principles of Teaching: AYA.....	5
EDSE-4450 Adolescent/Young Adult Clinical Experience.....	3
EDSP-2000 Teaching Children with Exceptionalities.....	1
EDSP-2050 Field Experience: Exceptional Learning Needs.....	1
EDSP-4250 Communication, Collaboration, and Inclusion.....	2
EDUC-1000 The Education Profession.....	2
EDUC-1050 Preliminary Student Involvement.....	0
EDUC-2000 Introduction to Diverse Learners.....	2
EDUC-2100 Technology in the Classroom.....	2
EDUC-2200 Multicultural Field Experience.....	1
EDUC-2500 Educational Psychology.....	3
EDUC-3100 Philosophical Foundations of Education.....	3
EDUC-3200 Faith and Learning Alignment.....	1
*EDUC-4900 Student Teaching and Seminar—Multi-Age.....	12
SPAN-3500 Methods of Teaching Foreign Language.....	2
SPAN-3600 Clinical Teaching in Spanish.....	2

\*Capstone Course

### Spanish Education Multi-Age Major Curriculum Summary

Proficiency Requirements.....	0–5
General Education Requirements.....	48
Spanish Education Multi-Age Major Requirements.....	46
Education Requirements.....	45
<b>Total (minimum, not including proficiency).....</b>	<b>139</b>

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

#### First year:

BTGE-1720 Spiritual Formation.....	3
COM-1100 Fundamentals of Speech.....	3
EDUC-1000 The Education Profession.....	2
ENG-1400 Composition.....	3
GBIO-1000 Principles of Biology.....	3.5
GMTH-1010 Introduction to Mathematics.....	3
GSCI-1020 Principles of Physical Science.....	3.5
PEF-1990 Physical Activity and the Christian Life.....	2
SPAN-2710 Intermediate Spanish I.....	4
SPAN-2720 Intermediate Spanish II.....	3
LIT-2XXX Literature Elective.....	3
<b>Total.....</b>	<b>33</b>

#### Second year:

BTGE-2730 Old Testament Literature.....	3
EDSP-2000 Teaching Children with Exceptionalities.....	1
EDSP-2050 Field Experience: Exceptional Learning Needs.....	1
EDUC-1050 Preliminary Student Involvement.....	0
EDUC-2000 Introduction to Diverse Learners.....	2
EDUC-2100 Technology in the Classroom.....	2
EDUC-2200 Multi-Cultural Field Experience.....	1
HUM-1400 Introduction to the Humanities.....	3
History Elective.....	3
SPAN-2760 Spanish for Professionals.....	3
SPAN-3500 Methods of Teaching Foreign Language.....	2
SPAN-3610 Spanish Composition.....	3
SPAN-3620 Spanish Conversation.....	3
SPAN-3640 Introduction to Hispanic Literature.....	3
SPAN-3680 History of Hispanics in the U.S.....	3
<b>Total.....</b>	<b>33</b>

#### Third year:

BTGE-2740 New Testament Literature.....	3
BTGE-3755 Theology I.....	3
EDUC-2500 Educational Psychology.....	3
EDUC-3200 Faith and Learning Alignment.....	1
EDSE-4000 Reading in the Content Area—Multi-Age.....	3
GSS-1100 Politics and American Culture.....	3
SPAN-3600 Clinical Teaching in Spanish.....	2
SPAN-4670 Civilization and Literature of Latin America II.....	3
Social Science Elective.....	3
Spanish Electives.....	12
<b>Total.....</b>	<b>36</b>

#### Fourth year:

BTGE-3765 Theology II.....	3
EDSE-4100 Principles of Teaching: AYA.....	5
EDSE-4450 Adolescent/Young Adult Clinical Experience.....	3
EDSP-4250 Communication, Collaboration, and Inclusion.....	2
EDUC-3100 Philosophical Foundations of Education.....	3
EDUC-4900 Student Teaching and Seminar — Multi-Age.....	12
LING-3100 Principles of Language Acquisition.....	3
SPAN-4610 Advanced Spanish Grammar.....	3
SPAN-4750 Civilization and Literature of Spain II.....	3
<b>Total.....</b>	<b>37</b>

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

## 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 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

### Creative Writing Minor

The **creative writing minor** is designed to enhance the student's abilities in various modes of writing. Course requirements involve 17 credit hours including:

ENG-2220 Introduction to Creative Writing .....	3
ENG-3030 Creative Writing: Fiction .....	3
ENG-3040 Creative Writing: Poetry .....	3
ENG-3050 Creative Writing: Nonfiction .....	3

#### Advanced Workshops (choose two from the following) .....

ENG-4030 Advanced Workshop: Fiction .....	2
ENG-4040 Advanced Workshop: Poetry .....	2
ENG-4050 Advanced Workshop: Nonfiction .....	2

ENG-4345 Portfolio and Performance .....	1
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### Editing and Publishing Minor

The **editing and publishing minor** is designed to prepare students for careers in the publishing field. Course requirements involve 19 credit hours including:

ENG-3070 English Grammar .....	3
PWID-3000 Production Tools and Document Design .....	3
PWID-3010 Style and Mechanics for Writers .....	3
PWID-3210 Technical Editing .....	2
PWID-XXXX Electives .....	8

### 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
Two courses selected from the following:.....	6
FREN-3910 French Conversation .....	3
FREN-3920 Contemporary French Culture .....	3
FREN-3930 Survey of French Literature .....	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 Conversation Spanish .....	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
<b>Electives selected from the following.....</b>	<b>8-10</b>
ARBC-2410, 2420 Intermediate Arabic I and II.....	7
ARBC-3500 Independent Study in Arabic Language and Culture.....	1-3
BTAT-2000 Introduction to Mission.....	3
BTAT-3450 Contemporary World Mission.....	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-3640 Introduction to Hispanic Literature.....	3
Spanish Elective: 3000- or 4000-level.....	3



**Spanish for Professionals Minor**

The **Spanish for professionals minor** is designed for careers linked to public service (social work, criminal justice, health care, 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 minor**

The **TESOL minor** prepares students to teach English to speakers of other languages in multi-age classrooms without obtaining state teacher licensure. Students who complete the TESOL minor are eligible to receive an institution-endorsed certificate. To receive the certificate, a student must earn a 3.0 or higher for the courses of the minor. Non-native speakers of English must achieve a TOEFL score of 600 or higher on the paper exam or 250 on the computer exam and a score of 55 or higher on the Test of Spoken English or have department approval to be admitted to the minor. Course requirements for the TESOL minor involve 16 hours including:

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

**Western European Studies Minor**

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

ANTH-1800 Cultural 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.....**

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 II.....	3
HIST-3070 Europe in the 18th and 19th Century.....	3
LIT-2330 World Mythology.....	3
LIT-4420 The European Novel.....	3
FREN/GER/SPAN 3XXX or 4XXX elect. not used in core	3-6



# Department of History and Government

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## Mission Statement

The goal of the Cedarville University Department of History and Government is to develop ethical, intellectually prepared, and articulate graduates who can refine and integrate an evangelical Christian worldview in their specific disciplines from a reasoned political, economic, and historical perspective, and who can then serve effectively in a diverse global community.

## Department Objectives

Upon completion of courses in the Department of History and Government, students will:

- Evidence knowledge of the basic components of their respective academic disciplines.
- Participate in graduate study and/or practice as professionals in public and private professions.
- Demonstrate competence in the methods and tools of original quantitative and qualitative research and the ability to formulate and express the results.
- Exhibit critical analysis in evaluating historical and/or contemporary issues.
- Display the ability to integrate biblical truth with their academic disciplines through the investigation and study of society.

## Personal Requirements

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

## Department Requirements

To graduate with a degree from the Department of History and Government, students must earn a cumulative average of 2.0 or higher and a "C-" or higher in all courses required by their selected major. In addition, **all** majors must complete the following:

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.

## Programs of Study

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

### Bachelor of Arts (B.A.) in:

- Criminal Justice
- Forensic Science
- History
- History and Political Science
- International Studies
- Political Science
- Prelaw
- Public Administration
- Social Studies Education — Integrated

### Bachelor of Science (B.S.) in:

- Forensic Science\*

\*In cooperation with the Department of Science and Mathematics; see page 172.

### Minors

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

## Cocurricular Opportunities

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

### Alpha Delta Nu

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

### Cedarville Legal Society

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

### College Republicans

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

### Epsilon Pi Lambda

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

### Model United Nations Team

Model United Nations Team is a simulation of the United Nations system. Students assume the roles of ambassadors to the United Nations and negotiate current global issues.

The Cedarville University Model UN Team participates in an 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

**Thomas Mach**, *Chair*; Professor of History. *Education*: B.A., Cedarville University, 1988; M.A., Cleveland State University, 1989; Ph.D., University of Akron, 1996. At Cedarville since 2000.

**Marc Clauson**, Professor of History and Law. *Education*: B.S., Marshall University, 1978; M.A., Marshall University, 1979; J.D., West Virginia University, 1982; M.Th., Liberty University, 1993; M.A., Liberty University, 1993; Ph.D., University of the Orange Free State, South Africa, 2001. At Cedarville since 2002.

**Glen Duerr**, Assistant Professor of International Studies. *Education*: B.A., University of Western Ontario, 2003; M.A., University of Windsor, 2005; Ph.D., Kent State, 2012. At Cedarville since 2012.

**Frank Jenista**, Professor of International Studies. *Education*: B.A., Cedarville University, 1968; M.A., University of Dayton, 1970; Ph.D., University of Michigan, 1978. At Cedarville since 2000.

**Murray Murdoch**, Senior Professor of History. *Education*: B.Th., Baptist Bible Seminary, 1960; M.A., Northwestern University, 1962; History Faculty Fellow, Northwestern University, 1963; Ph.D., Northwestern University, 1971. At Cedarville since 1965.

**Patrick Oliver**, Associate Professor of Criminal Justice. *Education*: A.A., University of Cincinnati, 1977; B.A., Baldwin Wallace College, 1981; M.B.A., Baldwin Wallace College, 1991; Ph.D., Antioch University, 2013; Penn State University Police Executive School, 1989; FBI Law Enforcement Executive Development School, 1993; Ohio Association Chiefs of Police Executive Leadership College, 1994; Executive Management Institute, 1997. At Cedarville since 2005.

**Robert Parr**, Professor of Sociology. *Education*: B.R.E., Grand Rapids Baptist College, 1967; M.R.E., Grand Rapids Baptist Seminary, 1970; M.A., Michigan State University, 1982; M.S.W., The Ohio State University, 1990; Ph.D., The Ohio State University, 1987. At Cedarville since 1980.

**David Rich**, Professor of Public Administration and Political Science. *Education*: B.A., Cedarville University, 1983; M.P.A., University of Dayton, 1988; D.P.A., Western Michigan University, 2006. At Cedarville since 2000.

**Kevin Sims**, Professor of Political Science. *Education*: B.A., Cedarville University, 1974; M.A., University of Northern Iowa, 1978; Ph.D., The Claremont Graduate School, 1991. At Cedarville since 1990.

**Mark Smith**, Professor of Political Science; Director, Center for Political Studies. *Education*: B.A., Bryan College, 1992; M.A., Trinity International University, 1995; M.A., University of Georgia, 1997; Ph.D., University of Georgia, 2001. At Cedarville since 2004.

**Richard Tison**, Assistant Professor of History and AYASS Coordinator. *Education*: B.A., Oakland University, 1994; M.A., Baylor University, 1999; Ph.D., University of Oklahoma, 2008. At Cedarville since 2011.

**Robert Vaughn**, Assistant Professor of Criminal Justice. *Education*: B.A., The Ohio State University, 1993; J.D., Capital University Law School, 1998. At Cedarville since 2009.

#### Emeriti

**Joseph Halsey**, Professor Emeritus of Political Science. *Education*: B.A., Morehead State University, 1965; M.Ed., Xavier University, 1969; Ph.D., University of Cincinnati, 1990. At Cedarville from 1970 to 2000.

**James McGoldrick**, Professor Emeritus of Social Science. *Education*: B.S., Temple University, 1961; M.A., Temple University, 1964; graduate study, Dropsie University, 1962; St. Joseph's College, 1968; University of Arkansas, 1969; Ph.D., West Virginia University, 1974; postdoctoral study, University of Scranton, 1977; Pennsylvania State University, summer, 1981; St. Joseph's University, summer 1982; University of Houston, summer 1984. At Cedarville from 1973 to 2001.

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



**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:

<b>Criminal Justice Core.....</b>	<b>49</b>
CRJU-1310 Introduction to Criminal Justice .....	3
CRJU-1350 Career Planning for Criminal Justice Personnel....	1
CRJU-2200 Criminology.....	3
CRJU-2310 Juvenile Delinquency .....	3
CRJU-3300 Corrections .....	3
CRJU-3350 Criminal Law.....	3
CRJU-3360 American Judicial System .....	3
CRJU-3400 Criminal Procedure .....	3
CRJU-3700 Financial Management .....	3
CRJU-4150 Homeland Security .....	3
CRJU-4200 Police Administration.....	3
CRJU-4320 Criminal Investigation.....	3
CRJU-4630 American Constitutional Law:Civil Liberties and Rights.....	3
*CRJU-4900 Research Issues in Criminal Justice.....	3
GSS-3640 Qualitative Methodology and Reasoning .....	3
GSS-3650 Quantitative Methodology .....	3
POLS-2620 American State and Local Government .....	3
<b>Electives selected from.....</b>	<b>12</b>
CRJU-3990 Criminal Justice Internship.....	3
<i>Homeland Security electives</i>	
CRJU-3500 Foundations of Emergency Management .....	3
CRJU-3990 Criminal Justice Internship.....	3-12
CRJU-4160 International and Domestic Terrorism.....	3

*Legal Studies electives*

CRJU-3390 Criminal Evidence .....	3
CRJU-4500 Comparative Criminal Justice.....	3
POLS-3760 Jurisprudence.....	3
POLS-4640 American Constitutional Law: Government Powers and Federalism .....	3

*Local Law Enforcement electives*

BTAT-3510 Introduction to Urban Ministries .....	3
CRJU-2840 Concepts of Chemical Dependency .....	3
POLS/PUAD-3600 Public Administration .....	3

\*Capstone Course

NOTE: Criminal justice students are expected to complete at least three credit hours of internship as part of their major elective hours. These hours can be obtained through a variety of internship opportunities in the local area including a semester study program through the Advanced Technical Intelligence Center (ATIC) in Fairborn, Ohio or the Ohio Peace Officer Basic Training program in Xenia, Ohio. The department has partnered with ATIC and the Greene County Career Center to provide this opportunity to students at Cedarville. Both the Ohio Peace Officer Basic Training Program and the Advanced Technical Intelligence Center (ATIC) provide unique opportunities for Cedarville students. The Peace Officer Basic Training Program is a police academy utilized by many departments throughout Ohio. When combined with Cedarville's B.A. in criminal justice, students will be completely prepared to enter the job market in a variety of areas in law enforcement. ATIC offers training in the field of intelligence for use in both the national and the local arenas. In an effort to help fill the human capital pipeline with trained, cleared professionals, ATIC offers intelligence internships to college juniors, seniors, and graduate students. To achieve this, ATIC partners with colleges and universities to offer a semester of training and research experience to qualified candidates. In addition, through agreements with government customers, and due to the classified content that students may be exposed to during the course, students who participate in the program will be submitted for a U.S. security clearance. If the government grants the clearance, the students are even more marketable and better prepared to enter the Intelligence Community (IC), private industry, academia, and other government organizations.

**Criminal Justice Major Curriculum Summary**

Proficiency Requirements .....	0-5
Other General Education Requirements.....	45-53
Criminal Justice Major Requirements .....	61
General Electives .....	14-22
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>



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

## Suggested Four-Year Curriculum for a Major in Criminal Justice

### First year:

BTGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech .....	3
CRJU-1310 Introduction to Criminal Justice .....	3
CRJU-1350 Career Planning for Criminal Justice Personnel.....	1
ENG-1400 Composition .....	3
GSS-1100 Politics and American Culture.....	3
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life .....	2
Biological Science Elective.....	3.5
LIT-2XXX Literature Elective .....	3
Physical Science Elective.....	3.5
<b>Total .....</b>	<b>31</b>

### 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
POLS-2620 American State and Local Government .....	3
Global Awareness Elective .....	3
History Elective.....	3
Humanities Elective .....	3
Elective .....	3
<b>Total .....</b>	<b>33</b>

### Third year:

BTGE-3755 Theology I.....	3
BTGE-3765 Theology II .....	3
CRJU-3300 Corrections .....	3
CRJU-3350 Criminal Law.....	3
CRJU-3360 American Judicial System .....	3
CRJU-3400 Criminal Procedure .....	3
CRJU-3700 Financial Management .....	3
CRJU-3990 Criminal Justice Internship.....	3
Criminal Justice Electives.....	9
<b>Total .....</b>	<b>33</b>

### Fourth year:

CRJU-4150 Homeland Security .....	3
CRJU-4200 Police Administration.....	3
CRJU-4320 Criminal Investigation.....	3
CRJU-4630 American Constitutional Law: Civil Liberties & Rights ...	3
CRJU-4900 Research Issues in Criminal Justice.....	3
Electives .....	16
<b>Total .....</b>	<b>31</b>

## Forensic Science

Interested students may consider a Bachelor of Science degree with a major in **forensic science**. This is an undergraduate interdisciplinary degree program with an emphasis on advanced (upper-level) course work and substantial laboratory work in the sciences. Students completing this program will also earn a minor in criminal justice and participate in an internship in a state crime laboratory their junior and senior years. This program is provided in partnership with the Department of Science and Mathematics. Program requirements can be found on page 172.



**History**

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

*Course requirements involve 39 hours including:*

GSS-3640 Qualitative Methodology and Reasoning .....	3
HIST-1110 United States History I .....	3
HIST-1120 United States History II .....	3
HIST-2000 Introduction to History .....	3
HIST-2010 History of Civilization I .....	3
HIST-2020 History of Civilization II .....	3
HIST-3000 Introduction to Historiography .....	3
*HIST-4700 Research in American History .....	3
(or HIST-4710 Research in European History .....	3)
(or HIST-4720 Research in Asian History .....	3)
Elective hours in history (3000- or 4000-level) .....	12
<b>Non-Western History elective selected from .....</b>	<b>3</b>
HIST-3080 History of Russia and Eastern Europe .....	3
HIST-3200 History and Politics of Latin America .....	3
HIST-3210 History and Politics of Asia .....	3
HIST-3220 History and Politics of the Middle East .....	3

\*Capstone Course

**History Major Curriculum Summary**

Proficiency Requirements .....	0–5
Other General Education Requirements .....	45–53
History Major Requirements .....	39
Electives .....	36–44
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>



**Suggested Four-Year Curriculum for a Major in History**

*First year:*

BTGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech .....	3
ENG-1400 Composition .....	3
GSS-1100 Politics and American Culture .....	3
HIST-1110 United States History I .....	3
HIST-1120 United States History II .....	3
HUM-1400 Introduction to the Humanities .....	3
PEF-1990 Physical Activity and the Christian Life .....	2
Quantitative Elective .....	3
Electives .....	6
<b>Total .....</b>	<b>32</b>

*Second year:*

BTGE-2730 Old Testament Literature .....	3
BTGE-2740 New Testament Literature .....	3
HIST-2000 Introduction to History .....	3
HIST-2010 History of Civilization I .....	3
HIST-2020 History of Civilization II .....	3
Biology Elective .....	3.5
Humanities Elective .....	3
LIT-2XXX Literature Elective .....	3
Physical Science Elective .....	3.5
Electives .....	4
<b>Total .....</b>	<b>32</b>

*Third year:*

BTGE-3755 Theology I .....	3
BTGE-3765 Theology II .....	3
GSS-3640 Qualitative Methodology and Reasoning .....	3
HIST-3000 Introduction to Historiography .....	3
History Elective (major requirement) .....	3
Non-Western History Elective (major requirement) .....	3
Electives .....	14
<b>Total .....</b>	<b>32</b>

*Fourth year:*

HIST-4700, 4710, or 4720 Research in American, European, or Asian History .....	3
History Electives (major requirement) .....	9
Electives .....	20
<b>Total .....</b>	<b>32</b>



### History and Political Science

The **history and political science major** offers a broad background of world history, particularly as it relates to the study of political systems. In these disciplines, biblical interpretations of history and biblical bases for civil government are emphasized.

Course requirement involve 48 semester hours including:

<b>History and Political Science Core .....</b>	<b>36</b>
GSS-3640 Qualitative Methodology and Reasoning .....	3
HIST-1110 United States History I .....	3
HIST-1120 United States History II .....	3
HIST-2010 History of Civilization I .....	3
HIST-2020 History of Civilization II .....	3
HIST-3110 Early American History .....	3
(or HIST-3120 Recent and Contemporary America.....)	3)
HIST-3710 History of Political Thought I: Ancient/Medieval.....	3
(or HIST-3720 History of Political Thought II: Modern/Cont..)	3)
POLS-2000 Introduction to Political Science .....	3
POLS-3600 Public Administration.....	3
POLS-3610 Presidency.....	3
(or POLS-3630 Congress.....)	3)
POLS-3650 International Relations .....	3
Non-Western History Elective .....	3
<b>Choose one from the following concentrations .....</b>	<b>12</b>
<b>History Concentration .....</b>	<b>12</b>
HIST-2000 Introduction to History .....	3
HIST-3000 Introduction to Historiography .....	3
*HIST-4700 Research in American History .....	3
(or HIST-4710 Research in European History .....	3)
(or HIST-4720 Research in Asian History.....)	3)
Elective hours in history (3000- or 4000-level).....	3
<b>Political Science Concentration .....</b>	<b>12</b>
**GSS-3650 Quantitative Methodology.....	3
*POLS-4900 Research in Political Science.....	3
<b>Political Science elective hours selected from .....</b>	<b>6</b>
POLS-3400 History of American Foreign Policy .....	3
POLS-3610 Presidency — if not chosen above.....	3
(or POLS-3630 Congress — if not chosen above ....)	3)
POLS-3640 Campaigns and Elections .....	3
POLS-4620 Church and State in America.....	3
POLS-4630 American Constitutional Law:	
Civil Liberties and Rights .....	3
POLS-4640 American Constitutional Law:	
Powers and Federalism .....	3

\*Capstone Course

\*\*Meets general education quantitative requirement.

#### History/Political Science Major Curriculum Summary

Proficiency Requirements .....	0–5
Other General Education Requirements.....	45–53
History/Political Science Major Requirements .....	48
Electives .....	27–35
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

### Suggested Four-Year Curriculum for a Major in History and Political Science

#### First year:

BTGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
GSS-1100 Politics and American Culture.....	3
HIST-1110 United States History I .....	3
HIST-1120 United States History II.....	3
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life .....	2
Biological Science Elective .....	3.5
Physical Science Elective .....	3.5
Quantitative Elective .....	3
<b>Total .....</b>	<b>33</b>

#### Second year:

BTGE-2730 Old Testament Literature.....	3
BTGE-2740 New Testament Literature .....	3
HIST-2010 History of Civilization I .....	3
HIST-2020 History of Civilization II .....	3
POLS-2000 Introduction to Political Science .....	3
POLS-3610 Presidency .....	3
(or POLS-3630 Congress .....	3)
Concentration Requirements .....	3
Humanities Elective .....	3
LIT-2XXX Literature Elective .....	3
Electives .....	6
<b>Total .....</b>	<b>33</b>

#### Third year:

BTGE-3755 Theology I .....	3
BTGE-3765 Theology II .....	3
GSS-3640 Qualitative Methodology and Reasoning .....	3
POLS-3600 Public Administration.....	3
POLS-3650 International Relations .....	3
Concentration Requirements .....	3
Non-Western History Elective.....	3
Electives .....	10
<b>Total .....</b>	<b>31</b>

#### Fourth year:

HIST-3110 Early American History .....	3
(or HIST-3120 History of Recent/Contemporary America .....	3)
HIST-3710 History of Political Thought I:	
Ancient Through Medieval.....	3
(or HIST-3720 History of Political Thought II:	
Modern/Contemporary .....	3)
Concentration Requirements.....	6
Electives .....	19
<b>Total .....</b>	<b>31</b>



**International Studies**

The **international studies major** provides students with a political view of the international community. Utilizing courses in economics, geography, history, literature, and political science, this program prepares students for careers in areas such as diplomacy, intelligence, international media, humanitarian assistance, international relations, and missions.

Course requirements involve 54 hours, including:

<b>International Studies Core</b> .....	<b>21</b>
ANTH-1800 Cultural Anthropology .....	3
BTPA-2260 World Religions.....	3
BUS-3910 International Business.....	3
COM-2140 Intercultural Communication.....	3
(or PSYCH-1800 Cross-Cultural Psychology.....)	(3)
HIST-2010 History of Civilization I.....	3
(or HIST-2020 History of Civilization II .....	(3)
INTL-3190 Global Issues .....	3
INTL/POLS-3790 Comparative Politics.....	3
<b>Social Science Requirements</b> .....	<b>12</b>
ECON-3350 Comparative Economic Systems .....	3
GSS-3640 Qualitative Methodology and Reasoning .....	3
(or GSS-3650 Quantitative Methodology .....	(3)
INTL-3650 International Relations .....	3
*INTL-4850 Research in International Studies .....	3
<b>Social science electives chosen from</b> .....	<b>21</b>
<b>Three or more courses selected from</b> .....	<b>9</b>
ECON-3360 International Trade and Economics .....	3
ECON-3380 Economic Development .....	3
and Political Economy .....	3
HIST-3080 History of Russia and Eastern Europe .....	3
INTL-3200 History and Politics of Latin America .....	3
INTL-3210 History and Politics of Asia .....	3
INTL-3220 History and Politics of the Middle East .....	3
INTL-3230 History and Politics of Western Europe .....	3
INTL-4050 Diplomacy of the Major Powers .....	3
INTL-4160 International and Domestic Terrorism.....	3
INTL-4800 Seminar in International Studies .....	3
INTL-4980 Independent Study in : .....	1-3
International Studies.....	1-3
<b>At least one course from Biblical and Theological Studies</b> <b>3</b>	
BTAT-2000 Introduction to Mission .....	3
BTAT-3450 Contemporary World Missions .....	3
BTAT-3470 Cross-Cultural Ministry.....	3
<b>At least one course in English, literature, and modern</b>	
<b>languages</b> .....	<b>3</b>
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). Travel study must be approved by the department.

**International Studies Major Curriculum Summary:**

Proficiency Requirements .....	0-5
Other General Education Requirements .....	39
International Studies Requirements .....	54
Required Cognates .....	0-15
Electives .....	20-35
<b>Total (minimum, not including proficiency)</b> .....	<b>128</b>

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

*First year:*

ANTH-1800 Cultural Anthropology .....	3
BTGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech.....	3
ENG-1400 English Composition.....	3
GSS-1100 Politics and American Culture.....	3
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life .....	2
Biological Science Elective .....	3.5
LIT-2XXX Literature Elective .....	3
Physical Science Elective.....	3.5
Quantitative Elective .....	3
<b>Total</b> .....	<b>33</b>

*Second year:*

BTGE-2730 Old Testament Literature.....	3
BTGE-2740 New Testament Literature .....	3
BTPA-2260 World Religions.....	3
COM-2140 Intercultural Communication.....	3
(PSYCH-1800 Cross-Cultural Psychology .....	(3)
GSS-3640 Qualitative Methodology and Reasoning .....	3
(or GSS-3650 Quantitative Methodology.....)	(3)
Elementary Foreign Language requirement .....	0-8
Social Science Electives.....	6
Electives .....	4-12
<b>Total</b> .....	<b>33</b>

*Third year:*

BTGE-3755 Theology I.....	3
BTGE-3765 Theology II.....	3
BUS-3910 International Business.....	3
ECON-3350 Comparative Economic Systems .....	3
INTL-3190 Global Issues .....	3
INTL-3650 International Relations.....	3
Intermediate Foreign Language requirement .....	0-7
Electives .....	6-13
<b>Total</b> .....	<b>31</b>

*Fourth year:*

HIST-2010 History of Civilization I.....	3
(or HIST-2020 History of Civilization II.....)	(3)
INTL-3790 Comparative Politics .....	3
INTL-4850 Research in International Studies.....	3
Social Science Electives.....	15
Electives .....	7
<b>Total</b> .....	<b>31</b>



**Political Science**

The **political science major** is designed to prepare students for advanced graduate education in the areas of American politics, international relations, political philosophy, and law. It also prepares students for careers in public policy analysis, international affairs, various levels of government, campaign management, interest groups, journalism, and many others. Course requirements involve 48 semester hours including:

<b>Political Science Core .....</b>	<b>21</b>
GSS-3640 Qualitative Methodology and Reasoning .....	3
GSS-3650 Quantitative Methodology .....	3
POLS-2000 Introduction to Political Science .....	3
POLS/PUAD-3600 Public Administration .....	3
POLS-3650 International Relations .....	3
POLS-3790 Comparative Politics .....	3
*POLS-4900 Research in Political Science .....	3
<b>Behavior electives selected from .....</b>	<b>6</b>
POLS-2250 Politics and Popular Culture .....	3
POLS-3640 Campaigns and Elections.....	3
POLS-3690 Public Policy .....	3
POLS/HIST-4620 Church and State in America .....	3
<b>International elective selected from .....</b>	<b>3</b>
POLS/GEO/HIST/INTL-3080 History and Politics of Russia and Eastern Europe .....	3
POLS-3190 Global Issues.....	3
POLS/HIST/GEO/INTL-3200 History and Politics of Latin America .....	3
POLS/HIST/GEO/INTL-3210 History and Politics of Asia ..	3
POLS/HIST/GEO/INTL-3220 History and Politics of the Middle East.....	3
POLS/HIST/INTL-3400 History of American Foreign Policy .....	3
POLS/HIST/INTL-4050 Diplomacy of the Major Powers ..	3
<b>Law electives selected from .....</b>	<b>6</b>
POLS-3760 Jurisprudence.....	3
POLS-4630 American Constitutional Law — Civil Liberties and Rights.....	3
POLS-4640 American Constitutional Law — Government and Federalism .....	3
<b>Political thought electives selected from .....</b>	<b>6</b>
POLS/HIST-3710 History of Political Thought I .....	3
POLS/HIST-3720 History of Political Thought II .....	3
POLS/HIST-3730 American Political Thought .....	3
<b>Structures electives selected from .....</b>	<b>6</b>
POLS-2620 American State and Local Government.....	3
POLS-3610 Presidency.....	3
POLS-3630 Congress .....	3
POLS/CRJU-3360 American Judicial System .....	3

\*Capstone Course

**Political Science Major Curriculum Summary**

Proficiency Requirements .....	0–5
Other General Education Requirements.....	42–50
Political Science Major Requirements .....	48
Electives .....	30–38
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

**Suggested Four-Year Curriculum for a Major in Political Science**

<i>First year:</i>	
BTGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
GSS-1100 Politics and American Culture.....	3
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life .....	2
Biological Science Elective.....	3.5
Physical Science Elective .....	3.5
Electives .....	9
<b>Total .....</b>	<b>33</b>
<i>Second year:</i>	
BTGE-2730 Old Testament Literature.....	3
BTGE-2740 New Testament Literature .....	3
GSS-3640 Qualitative Methodology and Reasoning .....	3
GSS-3650 Quantitative Methodology .....	3
POLS-2000 Introduction to Political Science .....	3
Humanities Elective .....	3
LIT-2XXX Literature Elective .....	3
Structures Electives.....	6
Electives .....	5
<b>Total .....</b>	<b>32</b>
<i>Third year:</i>	
BTGE-3755 Theology I.....	3
BTGE-3765 Theology II .....	3
POLS-3650 International Relations .....	3
Behavior Electives .....	6
International Electives .....	3
Political Thought Electives .....	6
Electives .....	6
<b>Total .....</b>	<b>30</b>
<i>Fourth year:</i>	
POLS-3600 Public Administration.....	3
POLS-3790 Comparative Politics .....	3
POLS-4900 Research in Political Science.....	3
Law Electives.....	6
Electives .....	18
<b>Total .....</b>	<b>33</b>





**Prelaw**

The **prelaw major** is designed to prepare students for law school. The curriculum seeks to provide necessary course content and to develop thinking and analytic skills needed to perform well on the Law School Admissions Test (LSAT) and in law school.

Course requirements involve 64 semester hours including:

<b>Prelaw Core Requirements</b> .....	<b>64</b>
ACCT-2110 Principles of Accounting I .....	3
ACCT-2120 Principles of Accounting II .....	3
BTPA-2200 Introduction to Philosophy .....	3
BTPA-2240 Logic .....	3
BUS-2180 Business Law I .....	3
ECON-2330 Microeconomics .....	3
GSS-3640 Qualitative Methodology and Reasoning .....	3
GSS-3650 Quantitative Methodology .....	3
HIST-1110 United States History I .....	3
HIST-1120 United States History II .....	3
HIST-2010 History of Civilization I .....	3
HIST-2020 History of Civilization II .....	3
HIST-3710 History of Political Thought I: Ancient Through Medieval .....	3
POLS-3760 Jurisprudence .....	3
POLS-4630 American Constitutional Law: Civil Liberties and Rights .....	3
POLS-4640 American Constitutional Law: Governments Powers and Federalism .....	3
*POLS-4700 Prelaw Seminar .....	3
SOC-1300 Introduction to Sociology .....	3
PWID-3010 Style and Mechanics for Writers .....	3
PWID-3011 Legal Research and Writing .....	1
<b>Electives selected from the following</b> .....	<b>6</b>
COM-3120 Argumentation .....	3
HIST-3720 History of Political Thought II: Modern and Contemporary .....	3
POLS-3630 Congress .....	3
PUAD-3600 Public Administration .....	3

\*Capstone Course

**Prelaw Major Curriculum Summary**

Proficiency Requirements .....	0–5
Other General Education Requirements .....	39–47
Prelaw Major Requirements .....	64
General Electives .....	17–25
<b>Total (minimum, not including proficiency)</b> .....	<b>128</b>



**Suggested Four-Year Curriculum  
for a Major in Prelaw**

*First year:*

BTGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech .....	3
ENG-1400 Composition .....	3
GSS-1100 Politics and American Culture .....	3
HIST-1110 United States History I .....	3
HIST-1120 United States History II .....	3
HUM-1400 Introduction to the Humanities .....	3
PEF-1990 Physical Activity and the Christian Life .....	2
Biological Sciences Elective .....	3.5
LIT-2XXX Literature Elective .....	3
Physical Science Elective .....	3.5
<b>Total</b> .....	<b>33</b>

*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
BTPA-2200 Introduction to Philosophy .....	3
BTPA-2240 Logic .....	3
BUS-2180 Business Law I .....	3
ECON-2330 Microeconomics .....	3
HIST-2010 History of Civilization I .....	3
HIST-2020 History of Civilization II .....	3
Global Awareness Elective .....	3
<b>Total</b> .....	<b>33</b>

*Third year:*

BTGE-3755 Theology I .....	3
BTGE-3765 Theology II .....	3
GSS-3640 Qualitative Methodology and Reasoning .....	3
GSS-3650 Quantitative Methodology .....	3
HIST-3710 History of Political Thought I: Ancient Through Medieval .....	3
POLS-3760 Jurisprudence .....	3
POLS-4640 American Constitutional Law: Governments Powers and Federalism .....	3
SOC-1300 Introduction to Sociology .....	3
PWID-3010 Style and Mechanics for Writers .....	3
PWID-3011 Legal Research and Writing .....	1
Prelaw Electives .....	3
<b>Total</b> .....	<b>31</b>

*Fourth year:*

POLS-4630 American Constitutional Law: Civil Liberties and Rights .....	3
POLS-4700 Prelaw Seminar .....	3
Prelaw Electives .....	3
Electives .....	22
<b>Total</b> .....	<b>31</b>

**Public Administration**

The **public administration major** prepares students to serve others with a vision toward improving the quality of life in their local community, state, or the nation. Public administration is an academic discipline historically developed from the interrelationships between government administration, business administration, and law. The major prepares students for careers in government, nonprofit and business administration, as well as graduate and professional programs in public administration, the social sciences, management, public policy, social work, criminal justice, or law by utilizing courses in political science, business administration, economics, and law.

Course requirements involve 63 semester hours including:

<b>Public Administration Requirements</b> .....	<b>63</b>
ACCT-2110 Principles of Accounting I .....	3
ACCT-2120 Principles of Accounting II .....	3
ACCT-4150 Government and Nonprofit Accounting .....	3
BUS-2180 Business Law I .....	3
ECON-2330 Microeconomics .....	3
ECON-2340 Macroeconomics .....	3
GSS-3640 Qualitative Methodology and Reasoning .....	3
GSS-3650 Quantitative Methodology .....	3
ITM-1510 Software Tools for Business .....	2
MGMT-3500 Principles of Organization and Management .....	3
MRKT-3600 Principles of Marketing .....	3
POLS-2620 American State and Local Government .....	3
POLS-4630 American Constitutional Law: Civil Liberties and Rights .....	3
PUAD-3100 Public Budgeting .....	3
PUAD-3390 Public Finance .....	3
PUAD-3600 Public Administration .....	3
PUAD-3690 Public Policy .....	3
*PUAD-4800 Applied Public Administration .....	3
PWID-3010 Style and Mechanics for Writers .....	3
PWID-3011 Legal Research and Writing .....	1
<b>Electives selected from</b> .....	<b>6</b>
COM-3230 Organizational Communication .....	3
COM-3250 Interviewing .....	3
MGMT-3530 Human Resources Management .....	3
MGMT-3550 Organizational Behavior .....	3

\*Capstone course

**Public Administration Major Curriculum Summary**

Proficiency Requirements .....	0–6
Other General Education Requirements .....	45–53
Public Administration Major Requirements .....	63
Electives (Consultation with Advisor) .....	12–20
<b>Total (minimum, not including proficiency)</b> .....	<b>128</b>

**Suggested Four-Year Curriculum for a Major in Public Administration**

*First year:*

BTGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech .....	3
ENG-1400 Composition .....	3
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to the Humanities .....	3
PEF-1990 Physical Activity and the Christian Life .....	2
POLS-2620 American State and Local Government .....	3
Biological Sciences Elective .....	3.5
History Elective .....	3
LIT-2XXX Literature Elective .....	3
Physical Science Elective .....	3.5
<b>Total</b> .....	<b>33</b>

*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-2180 Business Law I .....	3
ECON-2330 Microeconomics .....	3
ECON-2340 Macroeconomics .....	3
ITM-1510 Software Tools for Business .....	2
MRKT-3600 Principles of Marketing .....	3
Global Awareness Elective .....	3
Humanities Elective .....	3
<b>Total</b> .....	<b>32</b>

*Third year:*

BTGE-3755 Theology I .....	3
BTGE-3765 Theology II .....	3
GSS-3650 Quantitative Methodology .....	3
MGMT-3500 Principles of Organization and Management .....	3
PUAD-3390 Public Finance .....	3
PUAD-3600 Public Administration .....	3
PUAD-3690 Public Policy .....	3
Public Administration Electives .....	3
PWID-3010 Style and Mechanics for Writers .....	3
PWID-3011 Legal Research and Writing .....	1
Electives .....	5
<b>Total</b> .....	<b>33</b>

*Fourth year:*

ACCT-4150 Government and Nonprofit Accounting .....	3
GSS-3640 Qualitative Methodology and Reasoning .....	3
POLS-4630 American Constitutional Law: Civil Liberties and Rights .....	3
PUAD-3100 Public Budgeting .....	3
PUAD-4800 Applied Public Administration .....	3
Public Administration Electives .....	3
Electives .....	12
<b>Total</b> .....	<b>30</b>



**Teacher Education Licensure Program  
Social Studies Education — Integrated**

The **integrated social studies major** prepares students to teach social studies in public and Christian schools in grades 7–12. Students who complete this curriculum will be licensed by the state of Ohio and the Association of Christian Schools International. The Ohio teaching license, through reciprocal agreements, is automatically recognized in 42 states. For additional information about teaching in other states, see the School of Education section of this catalog.

*Course requirements involve 40 semester hours including:*

**Integrated Social Studies Core.....40**

ANTH-1800 Cultural Anthropology .....	3
ECON-2110 Essentials of Economics.....	3
EDSE-3800 Teaching Social Studies: AYA .....	2
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 I.....	3
HIST-1120 United States History II.....	3
HIST-2010 History of Civilization I.....	3
HIST-2020 History of Civilization II .....	3
HIST-3200 History and Politics of Latin America .....	3
(or HIST-3210 History and Politics of Asia.....)	3
(or HIST-3220 History and Politics of the Middle East.....)	3
HIST/SOC-3750 Social Movements .....	3
SOC-1300 Introduction to Sociology .....	3

**Teacher Education.....41**

EDSE-4000 Reading in the Content Area: AYA.....	3
EDSE-4100 Principles of Teaching: AYA .....	5
EDSE-4450 Adolescent/Young Adult Clinical Experience.....	3
*EDSE-4900 Student Teaching and Seminar: AYA .....	12
EDSP-2000 Teaching Children with Exceptionalities .....	1
EDSP-2050 Field Experience: Exceptional Learning Needs ....	1
EDSP-4250 Communication, Collaboration, and Inclusion.....	2
EDUC-1000 The Education Profession.....	2
EDUC-1050 Preliminary Student Involvement .....	0
EDUC-2000 Introduction to Diverse Learners .....	2
EDUC-2100 Technology in the Classroom .....	2
EDUC-2200 Multicultural Field Experience .....	1
EDUC-2500 Educational Psychology .....	3
EDUC-3100 Philosophical Foundations of Education .....	3
EDUC-3200 Faith and Learning Alignment .....	1

\*Capstone Course

*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 elective 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
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**Geography Electives selected from**

**(must differ from core).....**9

HIST-3200 History and Politics of Latin America.....	3
HIST-3210 History and Politics of Asia .....	3
HIST-3220 History and Politics of The Middle East.....	3
INTL-4850 Research in International Studies .....	3

**History Concentration.....**12

**Student must choose one of the following: .....**3

HIST-2000 Introduction to History .....	3
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-3070 Europe in the 18th and 19th Centuries.....	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 in 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

POLS-2000 Introduction to Political Science.....	3
POLS-3360 American Judicial Systems.....	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-4620 Church and State in America.....	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.....	0–5
Other General Education Requirements.....	39–47
Integrated Social Studies Education Major Requirements.....	52–55
Teacher Education Requirements.....	41
<b>Total (minimum, not including proficiency) .....</b>	<b>132</b>

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

## Suggested Four-Year Curriculum for a Major in Social Studies Education — Integrated

### First year:

BTGE-1720 Spiritual Formation .....	3
GBIO-1000 Principles of Biology .....	3.5
COM-1100 Fundamentals of Speech .....	3
EDUC-1000 The Education Profession .....	2
EDUC-1050 Preliminary Student Involvement .....	0
ENG-1400 Composition .....	3
GSS-1100 Politics and American Culture .....	3
HIST-1110 United States History I .....	3
HIST-1120 United States History II .....	3
HUM-1400 Introduction to the Humanities .....	3
PEF-1990 Physical Activity and the Christian Life .....	2
Physical Science Elective .....	3.5
Quantitative Requirement .....	3
<b>Total .....</b>	<b>35</b>

### Second year:

BTGE-2730 Old Testament Literature .....	3
BTGE-2740 New Testament Literature .....	3
ECON-2110 Essentials of Economics .....	3
EDSP-2000 Teaching Children with Exceptionalities .....	1
EDSP-2050 Field Experience: Exceptional Learning Needs .....	1
EDUC-2000 Introduction to Diverse Learners .....	2
EDUC-2100 Technology in the Classroom .....	2
EDUC-2200 Multicultural Field Experience .....	1
EDUC-2500 Educational Psychology .....	3
HIST-2010 History of Civilization I .....	3
HIST-2020 History of Civilization II .....	3
Concentration Requirement .....	6
<b>Total .....</b>	<b>31</b>

### Third year:

ANTH-1800 Cultural Anthropology .....	3
BTGE-3755 Theology I .....	3
BTGE-3765 Theology II .....	3
EDSE-3800 Teaching Social Studies: AYA .....	2
EDUC-3200 Faith and Learning Alignment .....	1
GEO-3510 World Regional Geography — Western .....	3
GEO-3520 World Regional Geography — Eastern .....	3
GSS-3810 Clinical Teaching in Social Studies I .....	1
GSS-3820 Clinical Teaching in Social Studies II .....	1
HIST-3200 History and Politics of Latin America .....	3
(or HIST-3210 History and Politics of Asia .....	3)
(or HIST-3220 History and Politics of the Middle East .....	3)
SOC-1300 Introduction to Sociology .....	3
Concentration Requirement .....	6
<b>Total .....</b>	<b>32</b>

### Fourth year:

EDSE-4000 Reading in the Content Area: AYA .....	3
EDSE-4100 Principles of Teaching: AYA .....	5
EDSE-4450 Adolescent/Young Adult Clinical Experience .....	3
EDSE-4900 Student Teaching and Seminar: AYA .....	12
EDSP-4250 Communication, Collaboration, and Inclusion .....	2
EDUC-3100 Philosophical Foundations of Education .....	3
HIST-3750 Social Movements .....	3
LIT-2XXX Literature Elective .....	3
<b>Total .....</b>	<b>34</b>

## 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
BTCM-3540 Women in Church History .....	3
HIST-3310 American Church History .....	3
HIST/POLS-4620 Church and State in America .....	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, 1120 United States History .....	6
HIST-2010 History of Civilization I .....	3
HIST-2020 History of Civilization II .....	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

\*ATIC Analyst Boot Camp

\*\*Prerequisites waived for national security minor

**Political Science Minor**

Course requirements for a minor in **political science** involve 18 semester hours including:

- POLS-2000 Introduction to Political Science .....3
- PUAD-3600 Public Administration .....3
- POLS-XXXX Political Science Electives ..... 12

**Public Administration Minor**

Course requirements for a minor in **public administration** involve 18 semester hours including:

- MGMT-3500 Principles of Organization and Management .....3
- POLS-4630 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-3630 Congress.....3
- POLS-3690 Public Policy.....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





# Interdisciplinary Studies

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**Mission Statement**

Interdisciplinary programs at the University are designed to encourage the thinking, research, and applications that help students understand the interrelationships among disciplines that are characteristic of a true liberal arts education. Drawing from several academic disciplines, these programs promote learning that broadens and deepens the student’s view of knowledge and the world as a whole.

**Personal Requirements**

Students who choose interdisciplinary programs typically possess a unique love for learning. They desire to know about many areas and enjoy discovering the relationships among the various academic disciplines that comprise the body of knowledge. Though most college preparatory curricula provide a good measure of breadth through their coverage of the basic disciplines, students interested in interdisciplinary programs should choose electives that sharpen their thinking skills and expand their intellectual horizons. Advanced high school courses in writing, literature, mathematics, science, economics, world history, or social science are recommended.

Although background in foreign language is not required for admission to the programs, foreign language competency is necessary for effective international service. Consequently, two or more units of foreign language in high school are strongly recommended.

**Programs of Study**

The University offers the following interdisciplinary programs:

- Honors Program
- Individualized Studies
- Liberal Arts
- Reserve Officer Training Corps (ROTC)
  - Air Force
  - Army

**Cocurricular Opportunities**

**Tau Delta Kappa (TDK)** provides an opportunity for fellowship, ministry, exchange of ideas, and support of students involved in the honors program. TDK students also tutor school children in the Cedarville area.

**Career Opportunities**

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

- Diplomat
- Government worker
- International relations
- Military officer
- Missionary

**Honors Program**

The **honors program** is designed to challenge gifted students to reach their academic potential through a specially designed course of study. The courses designated as “honors courses” are rigorous and demanding, challenging students to aspire to greater heights in their academic progress.

Admission to the program for entering freshmen is based upon ACT/SAT scores, extracurricular and work experience, and a sample of expository writing. Admitted freshmen students who meet the minimum standardized examination score and GPA requirements will be invited to apply to the Honors Program. Prospective students must complete a separate application, which is available through Admissions.

A limited number of students are admitted into the program each fall. Students enrolled in the honors program are required to complete four honors courses in addition to a senior seminar or

project.

Two of these courses are taken in the freshman year in a sequence entitled “The Making of the Modern Mind,” which traces the development of philosophic, cultural, and artistic traditions against the background of the history of western civilization. These two courses meet general education requirements in humanities, philosophy, and history.

In the sophomore and junior years, honors students take two integrative seminars. Typically, each honors seminar provides an interdisciplinary perspective on the topic of study. Enrollment in honors seminars is limited to 20 students.

In the senior year, each honors student chooses a capstone experience from two options: (1) Honors students may complete a traditional honors thesis, working one on one with a faculty mentor; or (2) Honors students may participate in the Honors Senior Colloquium during the two semesters of their senior academic year. This seminar provides a capstone experience focusing developing a Christian worldview in the midst of a contemporary society that is often inhospitable to biblical principle.

Through the honors program, Cedarville University encourages superior scholarship, allows a thorough integration of the various disciplines, and provides the student an opportunity to better understand how all knowledge relates to its source in God. The honors program offers an adventure in the world of ideas, coupled with practical incentives for transcribing faith and learning into the larger culture for the glory of God and the benefit of men and women in His image.

*Course requirements for the honors program involve 16 semester hours including:*

<b>I. Freshman Colloquia: The Making of the Modern Mind* .....</b>	<b>10</b>
HON-1010 The Classical and Medieval Ages .....	5
HON-1020 Renaissance, Reformation, and Revolutions.....	5
<b>II. Honors Integrative Seminars .....</b>	<b>4</b>
Two seminars, typically two hours each, taken in the sophomore and junior years.	
<b>III. Honors Research Project/Thesis.....</b>	<b>2</b>
Participation in a one-hour interdisciplinary colloquium each semester (HON-4910, HON-4920) or an interdisciplinary research project (HON-4950).	

\*If taken together, these two courses replace the following general education requirements:

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 B.A. degree with an individualized program in liberal arts.
7. The individualized program must meet all of the Cedarville University bachelor's degree requirements as detailed in the University catalog. In particular, the following items must be satisfied:
  - A GPA in the program of 2.50 or higher.
  - At least one-third of the program courses must be taken at Cedarville University.
  - At least one-third of the program courses must be taken at the 3000-level or higher.
  - "D" grades will not count as meeting the requirements of the individualized program.
  - A capstone course or experience appropriate to the individualized program and approved by the Individualized Studies Committee.

## Reserve Officer Training Corps (ROTC)

### Air Force Aerospace Studies

As a Cedarville University (CU) student, you have the opportunity to become an Air Force officer through a cooperative agreement with Wright State University's (WSU) Department of Aerospace Studies. WSU is the home of Detachment 643 and the host site for local colleges and universities to provide the Air Force Reserve Officer Training Corps (ROTC) program to full-time students pursuing a baccalaureate degree. While courses are taken through CU, leadership laboratories and classes for juniors and senior years are taught at WSU. Cedarville provides transportation.

The Air Force ROTC program is designed to produce Air Force officers who will be successful leaders and managers. All officers will be placed in positions of responsibility, facing challenging and rewarding career opportunities while using the most advanced technology in the world.

The Air Force ROTC program is organized in two portions: the General Military Course (GMC), typically taken during freshman and sophomore years, and the Professional Officer Course (POC), usually taken during junior and senior years or during the last two years prior to graduation. At a minimum, officers will need to complete the POC portion of the program.

- The GMC is a no-obligation introduction to the Air Force. The course covers the development and history of air power and the organization of the contemporary United States Air Force.
- The POC curriculum covers communicative skills, Air Force management and leadership, American defense policy, and regional world studies.

Although the program is open to all majors, selection to the POC is very competitive and depends on your performance. All Air Force ROTC students have the opportunity to apply for scholarships that pay partial or full tuition, books, and charges, plus a monthly stipend (stipend amount depends on your progress in the program). These scholarships are available on a competitive basis to students who demonstrate academic and leadership

potential. Scholarships with the greatest availability are in the areas of engineering, mathematics, computer science, and physics. High school students should apply for a scholarship no later than December 1 of their senior year. Apply at [afrotc.com](http://afrotc.com). In-college students will apply for scholarships through their Air Force ROTC instructor. If you are a freshman or sophomore seeking a challenge or wish to give Air Force ROTC a trial run, sign up for the AES-1210, The Air Force Today course.

For further information about Air Force ROTC at CU, students should contact:

The Department of Aerospace Studies  
 Wright State University  
 Dayton, Ohio 45435  
 Phone: 937-775-2730  
 Email: [afrotc@wright.edu](mailto:afrotc@wright.edu)  
 Website: [wright.edu/academics/prog/rotc](http://wright.edu/academics/prog/rotc)  
 or  
 Cedarville University Admissions Office  
 Phone: 1-937-766-7700  
 Email: [admiss@cedarville.edu](mailto:admiss@cedarville.edu)



### Army

As a Cedarville University student, you have the opportunity to be commissioned as an officer in the United States Army while the Army helps pay for your education. All classes, labs, and physical training are conducted at Central State University, located four miles south of Cedarville. All Army ROTC courses are taken through Cedarville University. Cedarville University provides transportation.

The objectives of the Army ROTC program are:

1. Recruit men and women possessing qualities of leadership, duty, respect, selfless service, honor, integrity, and personal courage.
2. Train students during their four-year academic program to serve as commissioned officers in the United States Army, National Guard, and Army Reserves.
3. Retain students through quality education experience and challenging military training.
4. Commission cadets as Second Lieutenants in the United States Army, leaders of America's most precious resource, our sons and daughters.

Students can enroll in the two, three, and four year Army ROTC program. Students can qualify for the two year program through prior military service, current military service, or attending the Cadet Initial Entry Training between the sophomore and junior years. The three and four year program consists of completing the basic course during the freshman and sophomore years and advanced course during the junior and senior years.



Scholarships are available. Students can earn two, three, and four year national and campus based scholarships that pay for 100 percent of tuition and fees, books, and provide a monthly stipend from \$300–\$500 based on academic progression.

High school students should apply for a national scholarship no later than February of their senior year. Apply at **goarmy.com/rotc**. College students will apply through their Army ROTC instructor.

Students can participate in worldwide military training opportunities while still pursuing their degree at Cedarville University. Opportunities include: Airborne School, Air Assault School, Foreign Language Program, Cultural Understanding and Language Program, and Cadet Troop Leaders Training.

Students can pursue a career as an active duty officer or dual career with civilian employment and service as an officer in the Nation Guard or Army Reserves.

Interested students should visit the Cedarville ROTC website, **cedarville.edu/rotc** or contact Cedarville University Admissions at 1-800-CEDARVILLE (233-2784).

## Liberal Arts

The **Bachelor of Arts degree with a major in liberal arts**, having the breadth and depth of a traditional liberal arts degree, allows some student flexibility in choosing courses. It is expected that students completing this degree will go on to graduate school, medical school, law school, or a school of theology.

Students must apply to the program to gain entrance. Students can apply at the end of the second semester of the freshman year for entry into the sophomore year. To be considered for this program, a student must meet the following requirements:

1. Maintain a 3.25 GPA or higher
2. Supply two faculty recommendations.

Freshmen may enter Cedarville University as a liberal arts major with provisional approval if they have either a 27 ACT or 1210 SAT and a 3.5 high school GPA; however, they must meet the requirements at the end of their freshman year in order to stay in the program.

A liberal arts committee made up of one faculty member from each area of the core will decide if a student will be granted entry into the program. The appropriate faculty member in each area of the core will serve as the academic advisor. The chair of the liberal arts committee will sign as department Chair on all forms.

The liberal arts committee will approve all programs decided on by the student and the advisor. Proposed programs and capstone projects must be approved by the end of the sophomore year.

Students must include a study abroad component 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-4950 Capstone Project in the Liberal Arts .....	3
Foreign Language through Second Year .....	15
<b>Core requirements</b> .....	<b>30</b>
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
<b>Concentration requirements</b> .....	<b>21</b>
3000- and 4000-level courses chosen within one the five core requirement divisions	

\*Capstone Course

## Liberal Arts Major Curriculum Summary:

Proficiency Requirements .....	0–5
General Education Requirements.....	51
Liberal Arts major Requirements .....	70
Electives .....	7
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

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

## Suggested Four-Year Curriculum for a Major in Liberal Arts

### First year:

BTGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition .....	3
HUM-1400 Introduction to the Humanities.....	3
LART-1000 Introduction to Liberal Arts .....	1
LIT-2XXX Literature Elective .....	3
PEF-1990 Physical Activity and the Christian Life .....	2
Biology Elective .....	3.5
History Elective.....	3
Humanities Elective .....	3
Quantitative Elective.....	3
<b>Total .....</b>	<b>30.5</b>

### Second year:

BTGE-2730 Old Testament Literature.....	3
BTGE-2740 New Testament Literature .....	3
Elementary Foreign Language .....	8
Core Requirement .....	15
Physical Science Elective.....	3.5
<b>Total .....</b>	<b>32.5</b>

### Third year:

BTGE-3755 Theology I.....	3
GSS-1100 Politics and American Culture.....	3
Core Requirements.....	15
Intermediate Foreign Language.....	7
Social Science Elective .....	3
<b>Total .....</b>	<b>31</b>

### Fourth year:

BTGE-3765 Theology II.....	3
LART-4950 Capstone Project in the Liberal Arts.....	3
Concentration Requirements .....	21
Electives .....	7
<b>Total .....</b>	<b>34</b>





# Department of Kinesiology and Allied Health

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## Mission Statement

The Cedarville University Department of Kinesiology and Allied Health seeks to:

1. Equip students for careers in sport- and exercise-related and the allied health professions.
2. Enable students to view knowledge in light of scriptural truth.
3. Help students apply and model knowledge to the vocation and world in which they work and live.
4. Encourage growth in Christian character.

## Preparation

Students planning to pursue a major within the Department of Kinesiology and Allied Health are best prepared in high school by taking a college preparatory curriculum. Students planning to pursue a multi-age physical education or sport and exercise studies major should take as many physical education courses as possible. Those considering majors in allied health, exercise science, and athletic training should take biology, chemistry, physics, and mathematics courses at least through algebra II.

## Department Requirements

Once students declare a major within the Department of Kinesiology and Allied Health, they are expected to maintain a level of personal physical fitness which demonstrates a commitment to professionalism and biblical stewardship. A mandatory semi-annual cardiovascular fitness assessment is used to evaluate the status of the student's fitness.

Multi-age physical education and sport and exercise studies majors have courses in their respective curricula that have motor skill performance proficiencies. While meeting the proficiency standards is not required to receive a passing grade in all classes, satisfactory completion of all of the proficiencies is a degree requirement. See page 79 for the School of Education admission and retention requirements for multi-age physical education and multi-age health education.

## Programs of Study

The Department of Kinesiology and Allied Health offers the following programs of study:

### Bachelor of Arts (B.A.) in:

- Athletic Training
- Physical Education – Multi-Age (certification for teaching pre-K to 12)
- Multi-Age Health and Physical Education

### Bachelor of Science (B.S.) in:

- Allied Health
- Exercise Science

### Minors

- Coaching
- Sport Ministry

## Cocurricular Opportunities

The Department of Kinesiology and Allied Health has several opportunities for students to increase their professional skills and awareness by being involved in the following Cedarville University approved organizations:

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

## Career Opportunities

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

- Administrator of youth activities and youth organizations
- Athletic director
- Athletic trainer
- Cardiac rehab
- Clinical exercise physiologist
- Coach
- Corporate wellness director
- Exercise specialist
- Fitness and recreation management
- Health teacher (pre-K to 12)
- Personal trainer
- Physical education teacher (pre-K to 12)
- Physical therapist
- Physician assistant
- Professional athletic team management
- Sport marketing and promotion
- Sport ministry organization management

## Faculty

**Evan Hellwig**, *Chair*; Professor of Athletic Training; Certified Athletic Trainer (BOC); licensed physical therapist. *Education*: B.S., Mankato State University, 1984; Physical Therapy Certificate, University of Iowa School of Medicine, 1986; Ph.D., University of Virginia, 1992. At Cedarville 1986–89 and since 1992.

**Teresa Clark**, Associate Professor of Kinesiology. *Education*: B.A., Cedarville University, 1975; M.S., Indiana University, 1986. At Cedarville since 1996.

**April Crommett**, Associate Professor of Exercise Science, Joint Assistant Professor in the School of Pharmacy. *Education*: B.S., Mississippi State University, 1991; M.S., Memphis State University, 1993; Ph.D., The University of Mississippi, 2000. ACSM Certified Health Fitness Instructor. At Cedarville since 2003.

**Kathleen Freese**, Associate Professor of Kinesiology. *Education*: B.S., Bowling Green State University, 1971; M.Ed., Bowling Green State University, 1981. At Cedarville since 1991.



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

**John McGillivray**, Associate Professor of Kinesiology; Coach, women's soccer; NAIA Hall of Fame, 1993. *Education*: B.S., Cedarville University, 1970; graduate study, Wright State University, 1972–74; M.S., University of Dayton, 1976. At Cedarville since 1974.

**L. Delyte Morris**, Professor of Allied Health; Licensed Physician Assistant; Coach, women's tennis. *Education*: B.S., Geneva College, 1959; M.S., Indiana University, 1960; P.E.D., Indiana University, 1966; A.S., Kettering College of Medical Arts, 1979. At Cedarville since 1998.

**Elizabeth Sled**, Assistant Professor of Kinesiology. *Education*: B.S.c.P.T., Queens University, 1990; M.S.C., Ohio State University, 1996; Ph.D., Queens University, 2008. At Cedarville since 2012.

**Hannah Stedje**, Instructor of Athletic Training; Certified Athletic Trainer (BOC); ATEP Clinical Education Coordinator. *Education*: B.A., Cedarville University, 2008; M.S., University of Indiana, 2010. At Cedarville since 2010.

**Michael Weller**, Assistant Professor of Athletic Training; Certified Athletic Trainer (BOC); ATEP Program Director. *Education*: B.A., Capital University, 1995; M.S., Ohio University, 1997. At Cedarville since 2010.

#### Emeriti

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

#### Teaching Staff

**Kari Hoffman**, Teaching staff in Kinesiology and Allied Health. *Education*: B.A., Cedarville University, 2005, M.A. Concordia University, 2010. At Cedarville since 2010.

**Brandon Sok**, Teaching Staff in Kinesiology and Allied Health. *Education*: B.A. Cedarville University, 2010; M.B.A., Oklahoma Wesleyan University, 2014. At Cedarville since 2013.

#### Staff Clinical Instructor

**Kurt Beachy**, AT. *Education*: B.S., University of New Mexico; M.S., University of Iowa. At Cedarville since 2012.

**Amanda Meade**, AT. *Education*: B.S., Wilmington College, 2010; M.S., University of Kentucky, 2012. At Cedarville since 2012.

## Athletic Training Mission Statement

The mission of the Cedarville University Athletic Training Education Program (ATEP) is to advance the Kingdom of Christ by preparing entry-level athletic trainers, through diverse learning experiences, to practice competently and professionally throughout the world.

This is to be accomplished through an educational program that practices the skills associated with the prevention, diagnosis, and intervention of emergency, acute, and chronic medical conditions involving impairment, functional limitations, and disabilities.

Students will be able to:

- Provide quality health care including prevention, diagnosis, and intervention to patients and clients who participate in physical activity.
- Utilize therapeutic techniques and equipment safely, appropriately, and effectively.
- Instruct patients and clients in areas of prevention, stewardship, and convalescence.
- Implement organizational skills to manage an athletic training facility.
- Locate, interpret, and implement athletic training research.
- Conduct themselves professionally with Christlike characteristics.

The athletic training major prepares students for a career as a Certified Athletic Trainer (or ATC), which is the official credential awarded when students successfully pass the certification exam administered by the BOC. Cedarville's athletic training program meets the requirements set forth by the National Athletic Trainers' Association (NATA) and the Commission on Accreditation of Athletic Training Education (CAATE).

## Personal Requirements

Athletic training requires a significant level of scientific and clinical preparation. Prospective athletic training students are encouraged to take college preparatory courses in high school, including biology, chemistry, physics, and advanced math. An ACT composite score of 24 (or SAT composite of 1100) or higher is highly recommended.

Typically, the student who is interested in athletic training as a potential career has a history of being involved in athletics personally and may even wish to pursue participating in athletics at the collegiate level. Students need to be aware that the (ATEP) depends on the varsity athletic program at Cedarville as well as high schools, colleges, and clinics in the community to provide the primary "laboratory" experiences for the clinical education component of the program. Therefore, attempting to participate in varsity athletics while simultaneously pursuing the athletic training major may prove to be a significant conflict of interest.

Students are, however, expected to model appropriate stewardship of their physical bodies by being involved in a consistent program of regular exercise and activity. A biannual one and a half-mile run is used to evaluate the status of the student's fitness.



## Program Requirements

### Admission and Retention

Athletic training clinical education is a labor-intensive product to deliver. Because there is a finite number of quality sports medicine opportunities available on campus, the ATEP limits each academic class to no more than 12 students each (i.e., 12 seniors, 12 juniors, and 12 sophomores). There is currently no limit to how many freshmen may declare athletic training as their major, but if more than 12 students desire to continue as athletic training majors beyond the freshman year, the competitive admission process is enforced. Transfer students are considered on an individual basis but are only eligible to be admitted directly into the ATEP if: 1) there is space available in their graduating class and 2) they have met all the admission criteria. Anyone thinking about transferring to Cedarville for the purpose of being an athletic training major should contact the program director as early in the process as possible. Admission criteria include:

1. Cumulative GPA of 2.5 or higher
2. Completion of college-level biology courses with a grade of "C-" or higher
3. Completion of college-level first aid and basic athletic training courses with a grade of "B-" or higher
4. Completion of at least 150 clinical hours in the Cedarville University Athletic Training Facility
5. Satisfactory physical exam
6. Hepatitis B vaccine or signed declination
7. Signed acceptance of technical standards, available at [cedarville.edu/athletictraining](http://cedarville.edu/athletictraining)
8. Current certification in cardiopulmonary resuscitation (CPR) including AED

Retention criteria include:

1. Earning a grade of "C-" or higher in all athletic training courses
2. Maintaining a cumulative GPA of 2.50 or higher
3. Maintaining current CPR/AED certification
4. Successfully completing clinical proficiencies established for each term
5. Positive recommendation by the faculty/clinical instructors of the ATEP

Graduation requirements include:

1. Earning a grade of "C-" or higher in all athletic training courses
2. Member of the NATA
3. Successful completion of all clinical proficiencies
4. Meeting University requirements for graduation

Students are encouraged to combine the athletic training major with another program of study depending upon their career objectives. Possible options include a business minor for those planning to be employed in the sports medicine clinic setting, or a teaching certificate for those planning to be employed in the high school setting, and exercise science or biology electives for those pursuing graduate education or employment in higher education. Students need to be aware that preparing to be a marketable athletic trainer may require more than the traditional four years of college.



## Athletic Training

### Clinical Requirements

The clinical experience is an integral part of the ATEP. Accreditation standards require that the clinical education component of the curriculum be at least two full years in duration. Athletic training majors need to be routinely available during typical practice and game times in order to fulfill the clinical education requirements. Freshmen will need to accumulate at least 150 hours of observational time in the athletic training facility in order to be eligible for admission into the ATEP. Sophomores will be scheduled to work (approximately eight–10 hours per week) with one of the on-campus Certified Athletic Trainers to expose them to collegiate athletic training services. The junior and senior years are devoted to completing extensive clinical assignments, including working under the supervision of a certified athletic trainer with a lower extremity sport, an upper extremity sport, an equipment intensive sport such as football, and a general medical clinical education rotation. Upperclassmen can anticipate working 12–20 hours per week. Students majoring in athletic training are not encouraged to participate in intercollegiate athletics.

Course requirements involve 72.5 semester hours including:

ATRN-1300 Emergency Care .....	3
ATRN-1500 Introduction to Athletic Training.....	1
ATRN-1550 Basic Athletic Training .....	3
ATRN-2560 Lower Body Injury Management .....	3
ATRN-2570 Upper Body Injury Management .....	3
ATRN-2650 Therapeutic Exercise.....	3
ATRN-2901 Clinical I.....	2
ATRN-2902 Clinical II .....	2
ATRN-3550 Organization and Administration in Athletic Training .....	3
ATRN-3660 Therapeutic Modalities .....	3
ATRN-3903 Clinical III .....	2
ATRN-3904 Clinical IV .....	2
ATRN-4560 General Medical Issues .....	3
ATRN-4905 Clinical V .....	2
*ATRN-4906 Clinical VI.....	2
ESS-3800 Sport Psychology .....	3
ESS-3900 Physiology of Exercise .....	3
ESS-3940 Structural Kinesiology .....	3
ESSE-3100 Strength and Conditioning .....	3
EXSC-4600 Research in Exercise Science .....	3
GBIO-1000 Principles of Biology .....	3.5
GBIO-2010 Human Anatomy and Physiology I .....	4
GBIO-2015 Human Anatomy and Physiology II .....	4
MAHE-3030 Nutrition.....	3
MAHE-3100 Drug Education .....	3
PYCH-1600 General Psychology.....	3

\*Capstone Course

### Athletic Training Major Curriculum Summary

Proficiency Requirements .....	0–5
General Education Requirements.....	44.5–52.5
Athletic Training Major Requirements .....	72.5
Electives .....	3–11
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

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

#### First year:

ATRN-1300 Emergency Care .....	3
ATRN-1500 Introduction to Athletic Training .....	1
ATRN-1550 Basic Athletic Training .....	3
BTGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
GBIO-1000 Principles of Biology .....	3.5
GBIO-2010 Human Anatomy and Physiology I .....	4
GMTH-1020 College Algebra.....	3
PEF-1990 Physical Activity and the Christian Life .....	2
PYCH-1600 General Psychology.....	3
<b>Total .....</b>	<b>31.5</b>

#### Second year:

ATRN-2560 Lower Body Injury Management .....	3
ATRN-2570 Upper Body Injury Management .....	3
ATRN-2650 Therapeutic Exercise.....	3
ATRN-2901 Clinical I.....	2
ATRN-2902 Clinical II .....	2
BTGE-2730 Old Testament Literature.....	3
BTGE-2740 New Testament Literature .....	3
ESS-3800 Sport Psychology .....	3
ESS-3900 Physiology of Exercise .....	3
ESS-3940 Structural Kinesiology .....	3
GBIO-2015 Human Anatomy and Physiology II .....	4
<b>Total .....</b>	<b>32</b>

#### Third year:

ATRN-3550 Organization and Administration in Athletic Training .....	3
ATRN-3660 Therapeutic Modalities .....	3
ATRN-3903 Clinical III .....	2
ATRN-3904 Clinical IV .....	2
BTGE-3755 Theology I.....	3
BTGE-3765 Theology II .....	3
EXSC-4600 Research in Exercise Science .....	3
GSS-1100 Politics and American Culture.....	3
HUM-1400 Introduction to the Humanities.....	3
MAHE-3030 Nutrition .....	3
MAHE-3100 Drug Education .....	3
<b>Total .....</b>	<b>31</b>

#### Fourth year:

ATRN-4560 General Medical Issues .....	3
ATRN-4905 Clinical V .....	2
ATRN-4906 Clinical VI .....	2
ESSE-3100 Strength and Conditioning .....	3
History Elective.....	3
Humanities/Global Awareness Elective .....	3
LIT-2XXX Literature Elective .....	3
Physical Science Elective.....	3.5
Electives .....	11
<b>Total .....</b>	<b>33.5</b>



## Allied Health

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

*Course Requirements involve 78–81 semester hours:*

ALHL-1000 Introduction to the Allied Health Professions.....	1
ALHL-2000 Medical Terminology.....	1
ALHL-3940 Professional Development.....	1
ALHL-4950 Allied Health Seminar I.....	1
*ALHL-4960 Allied Health Seminar II.....	1
BIO-1110 Introduction to Biology.....	4
BIO-2210 Microbiology.....	4
BIO-2250 Cell Biology.....	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 in Exercise Science.....	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
<b>One of the following sets.....</b>	<b>11–14</b>
Set A: Pre-Physical Therapy, Optometry, Chiropractic, etc	
CHEM-1120 General Chemistry II.....	4
PHYS-1010 College Physics I.....	5
PHYS-1020 College Physics II.....	5
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.....	5
PYCH-3900 Physiological Psychology.....	3
SOC-1300 Introduction to Sociology.....	3

\*Capstone Course

### Allied Health Major Curriculum Summary

Proficiency Requirements.....	0–5
General Education Requirements.....	35
Allied Health Major Requirements.....	78–81
Electives.....	12–15
<b>Total (minimum, not including proficiency).....</b>	<b>128</b>

### Suggested Four-Year Curriculum for a Major in Allied Health

*First year:*

ALHL-1000 Introduction to the Allied Health Professions.....	1
BTGE-1720 Spiritual Formation.....	3
BIO-1110 Introduction to Biology.....	4
BIO-2250 Cell Biology.....	4
ENG-1400 Composition.....	3
GMTH-1030 Precalculus.....	4
PEF-1990 Physical Activity and the Christian Life.....	2
PYCH-1600 General Psychology.....	3
GSS-1100 Politics and American Culture.....	3
LIT-2XXX Literature Elective.....	3
<b>Total.....</b>	<b>30</b>

*Second year:*

ALHL-2000 Medical Terminology.....	1
BTGE-2730 Old Testament Literature.....	3
BIO-2210 Microbiology.....	4
COM-1100 Fundamentals of Speech.....	3
CHEM-1110 General Chemistry I.....	4
GBIO-2010 Human Anatomy and Physiology I.....	4
HUM-1400 Introduction to the Humanities.....	3
PYCH-2600 Human Development and Lifespan.....	3
PYCH-2640 Abnormal Psychology.....	3
History Elective.....	3
<b>Total.....</b>	<b>31</b>

*Third year:*

ALHL-3940 Professional Development.....	1
BTGE-2740 New Testament Literature.....	3
ESS-3900 Physiology of Exercise.....	3
ESS-3920 Biomechanics.....	3
ESS-3940 Structural Kinesiology.....	3
EXSC-4600 Research in Exercise Science.....	3
GBIO-2015 Human Anatomy and Physiology II.....	4
MAHE-3030 Nutrition.....	3
MAHE-3070 Current Issues in Health.....	1
PYCH-2610 Statistics.....	3
PYCH-3380 Health Psychology.....	3
Electives.....	3
<b>Total.....</b>	<b>33</b>

*Fourth year:*

ALHL-4950 Allied Health Seminar I.....	1
ALHL-4960 Allied Health Seminar II.....	1
BTGE-3755 Theology I.....	3
BTGE-3765 Theology II.....	3
PYCH-3720 Psychology of Personality.....	3
Global Awareness Elective.....	0–3
Set A, B, or C Allied Health.....	11–14
Electives.....	6–12
<b>Total.....</b>	<b>34</b>



### Exercise Science — Bachelor of Science

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

Course requirements involve 69-72 semester hours including:

<sup>1</sup> CHEM-1000 Principles of Chemistry .....	5
ESS-1350 Foundations of Exercise and Sport Science .....	2
ESS-1400 First Aid and Safety Education .....	2
ESS-2380 Motor Learning and Development .....	3
ESS-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 Campus Exercise Science Practicum .....	1
EXSC-3020 Community Exercise Science Practicum .....	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 in 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
<sup>2</sup> GBIO-2010 Human Anatomy and Physiology I .....	4
<sup>3</sup> GBIO-2015 Human Anatomy and Physiology II .....	4
MAHE-3030 Nutrition .....	3
MAHE-3100 Drug Education .....	3
<sup>1</sup> Satisfies physical science general education requirements	
<sup>2</sup> Satisfies biological science general education requirements	
<sup>3</sup> Counts 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 .....	0–5
General Education Requirements .....	44
Exercise Science B.S. Major Requirements .....	69–72
Electives .....	12–15
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

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-2250 Cell Biology .....	4
GMTH-1030 Precalculus .....	4
CHEM-1110 General Chemistry I .....	4
and CHEM-1120 General Chemistry II .....	4
(instead of CHEM-1010 Principles of Chemistry .....	5)
BIO-1110 Introduction to Biology .....	4
(instead of GBIO-1000 Principles of Biology .....	3.5)
PHYS-1010 College Physics I .....	5
and PHYS-1020 College Physics II .....	5
PYCH-1600 General Psychology .....	3
PYCH-2600 Human Development: Life Span .....	3
PYCH-2610 Statistics .....	3
PYCH-2640 Abnormal Psychology .....	3

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

*First year:*

BTGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech .....	3
ENG-1400 Composition .....	3
ESS-1350 Foundations of Exercise and Sport Science .....	2
ESS-1400 First Aid and Safety Education .....	2
GBIO-2010 Human Anatomy and Physiology I .....	4
GSS-1100 Politics and American Culture .....	3
PEF-1990 Physical Activity and the Christian Life .....	2
History Elective .....	3
Humanities Elective .....	3
Quantitative Requirement .....	3
<b>Total .....</b>	<b>31</b>

*Summer:*

EXSC-2000 Worksite Observation .....	0
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*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
<b>Total .....</b>	<b>31</b>

*Third year:*

BTGE-3755 Theology I .....	3
BTGE-3765 Theology II .....	3
CHEM-1000 Principles of Chemistry .....	5
ESS-3940 Structural Kinesiology .....	3
EXSC-3010 Campus Exercise Science Practicum .....	1
EXSC-3860 Basic Exercise Testing .....	4
EXSC-3870 Basic Exercise Prescription .....	4
EXSC-4600 Research in Exercise Science .....	3
MAHE-3030 Nutrition .....	3
MAHE-3100 Drug Education .....	3
<b>Total .....</b>	<b>32</b>

*Fourth year:*

EXSC-3020 Community Exercise Science Practicum .....	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 .....	12–15
<b>Total .....</b>	<b>34</b>





**Teacher Education Licensure Program — Physical Education — Multi-Age**

The **multi-age physical education major** prepares students to teach physical education in grades pre-K to 12 in public and Christian schools. Students who complete this curriculum will be licensed by the state of Ohio and the Association of Christian Schools International. The Ohio teaching license, through reciprocal agreements, is automatically recognized in 42 states. For additional information about teaching in other states, see the School of Education section (page 79).

Course requirements involve 83 semester hours including:

<b>Physical Education</b> .....	<b>39</b>
ESS-1350 Foundations of Exercise and Sport Science .....	2
ESS-1400 First Aid and Safety Education .....	2
ESS-2380 Motor Learning and Development.....	3
ESS-3890 Human Anatomy and Physiology for the Physical Educator .....	5
ESS-3900 Physiology of Exercise .....	3
ESS-3920 Biomechanics.....	3
GMTH-1020 College Algebra.....	3
MAHE-3130 School Health Program .....	3
MAPE-1210 Team Sports .....	2
MAPE-2200 Individual and Dual Sports I.....	2
MAPE-2210 Individual and Dual Sports II.....	2
MAPE-4500 Curriculum Development in Physical Education...	2
PEAL-XXXX Outdoor Leisure Elective.....	1
PEAR-2100 Rhythmics .....	1
PEAS-1120 Tumbling .....	1
Kinesiology and Allied Health Electives.....	4
<b>Professional Education</b> .....	<b>44</b>
EDSP-2000 Teaching Children with Exceptionalities .....	1
EDSP-2050 Field Experience: Exceptional Learning Needs ...	1
EDUC-1000 The Education Profession.....	2
EDUC-1050 Preliminary Student Involvement.....	0
EDUC-2000 Introduction to Diverse Learners .....	2
EDUC-2100 Technology in the Classroom .....	2
EDUC-2200 Multicultural Field Experience .....	1
EDUC-2500 Educational Psychology .....	3
EDUC-3100 Philosophical Foundations of Education .....	3
EDUC-4000 Reading in the Content Area: 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 .....	0–5
General Education Requirements.....	45–53
Physical Education Multi-Age Major Requirements .....	83
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

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

*First year:*

BTGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech .....	3
EDUC-1000 The Education Profession.....	2
EDUC-1050 Preliminary Student Involvement.....	0
ENG-1400 Composition.....	3
ESS-1350 Foundations of Exercise and Sport Science .....	2
ESS-1400 First Aid and Safety Education .....	2
GBIO-1000 Principles of Biology .....	3.5
GMTH-1020 College Algebra.....	3
HUM-1400 Introduction to the Humanities .....	3
MAPE-1210 Team Sports .....	2
PEAS-1120 Tumbling .....	1
PEF-1990 Physical Activity and the Christian Life .....	2
<b>Total .....</b>	<b>29.5</b>

*Second year:*

BTGE-2730 Old Testament Literature.....	3
BTGE-2740 New Testament Literature .....	3
EDSP-2000 Teaching Children with Exceptionalities .....	1
EDSP-2050 Field Experience: Exceptional Learning Needs .....	1
EDUC-2000 Introduction to Diverse Learners .....	2
EDUC-2100 Technology in the Classroom .....	2
EDUC-2200 Multicultural Field Experience .....	1
EDUC-2500 Educational Psychology .....	3
ESS-2380 Motor Learning and Development.....	3
MAPE-2200 Individual and Dual Sports I.....	2
MAPE-2210 Individual and Dual Sports II .....	2
PEAR-2100 Rhythmics .....	1
Physical Science Elective .....	3.5
LIT-2XXX Literature Elective .....	3
Social Science/ Global Awareness Elective.....	3
<b>Total .....</b>	<b>33.5</b>

*Third year:*

BTGE-3755 Theology I.....	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
PEAL-XXXX Outdoor Leisure Activity .....	1
Kinesiology and Allied Health Elective.....	4
History Elective.....	3
<b>Total .....</b>	<b>33</b>

*Summer:*

EDUC-4000 Reading in the Content Area: Multi-Age .....	3
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*Fourth year:*

BTGE-3765 Theology II .....	3
EDUC-3100 Philosophical Foundations of Education .....	3
EDUC-4900 Student Teaching and Seminar: Multi-Age .....	12
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
<b>Total .....</b>	<b>29</b>

### Multi-Age Health and Physical Education

The **multi-age health and physical education major** prepares students to teach both health and physical education in grades pre-K through grade 12 in public and Christian schools. Students who complete this curriculum will be licensed by the state of Ohio and the Association of Christian Schools International. The Ohio teaching license, through reciprocal agreements, is automatically recognized in 42 states. For additional information about teaching in other states, see the School of Education section. Students in this major will practice improving teaching skills in five different teaching experiences; urban field experience, homeschool experience, methods field experience (public), special populations field experience (GCEC public), culminating with student teaching (public or Christian). The total contact hours is 1000 plus.

Course requirements involve 87 semester hours including:

<b>Physical Education</b> .....	<b>38</b>
ESS-1350 Foundations of Exercise and Sport Science .....	2
ESS-1400 First Aid and Safety Education .....	2
ESS-2380 Motor Learning and Development.....	3
ESS-3890 Human Anatomy and Physiology for the Physical Educator .....	5
ESS-3900 Physiology of Exercise .....	3
ESS-3920 Biomechanics.....	3
MAHE-3030 Nutrition.....	3
MAHE-3100 Drug Education .....	3
MAHE-3130 School Health Program .....	3
MAPE-1210 Team Sports .....	2
MAPE-2200 Individual and Dual Sports I.....	2
MAPE-2210 Individual and Dual Sports II .....	2
MAPE-4500 Curriculum Development in Physical Education... 2	
PEAL-XXXX Outdoor Leisure Elective.....	1
PEAR-2100 Rhythmics .....	1
PEAS-1120 Tumbling .....	1
<b>Professional Education</b> .....	<b>49</b>
EDSP-2000 Teaching Children with Exceptionalities .....	1
EDSP-2050 Field Experience: Exceptional Learning Needs ... 1	
EDUC-1000 The Education Profession.....	2
EDUC-1050 Preliminary Student Involvement .....	0
EDUC-2000 Introduction to Diverse Learners .....	2
EDUC-2100 Technology in the Classroom .....	2
EDUC-2200 Multicultural Field Experience .....	1
EDUC-2500 Educational Psychology .....	3
EDUC-3100 Philosophical Foundations of Education .....	3
EDUC-4000 Reading in the Content Area: Multi-Age .....	3
*EDUC-4900 Student Teaching and Seminar: Multi-Age.....	12
MAHE-4610 Teaching Health.....	5
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 .....	0-5
General Education Requirements.....	48-56
Physical Education Multi-Age Major Requirements .....	87
<b>Total (minimum, not including proficiency) .....</b>	<b>135</b>

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

First year:

BTGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech .....	3
EDUC-1000 The Education Profession.....	2
EDUC-1050 Preliminary Student Involvement .....	0
ENG-1400 Composition.....	3
ESS-1350 Foundations of Exercise and Sport Science .....	2
ESS-1400 First Aid and Safety Education .....	2
ESS-2380 Motor Learning and Development.....	3
GBIO-1000 Principles of Biology .....	3.5
HUM-1400 Introduction to the Humanities .....	3
MAPE-1210 Team Sports .....	2
PEF-1990 Physical Activity and the Christian Life .....	2
Quantitative Elective.....	3
<b>Total .....</b>	<b>31.5</b>

Second year:

BTGE-2730 Old Testament Literature.....	3
BTGE-2740 New Testament Literature .....	3
EDSP-2000 Teaching Children with Exceptionalities .....	1
EDSP-2050 Field Experience: Exceptional Learning Needs .....	1
EDUC-2000 Introduction to Diverse Learners .....	2
EDUC-2100 Technology in the Classroom .....	2
EDUC-2200 Multicultural Field Experience .....	1
GSS-1100 Politics and American Culture.....	3
MAHE-3030 Nutrition .....	3
MAPE-2200 Individual and Dual Sports I.....	2
MAPE-2210 Individual and Dual Sports II .....	2
PEAR-2100 Rhythmics .....	1
PEAS-1120 Tumbling .....	1
LIT-2XXX Literature Elective .....	3
History Elective.....	3
Physical Science Elective.....	3.5
<b>Total .....</b>	<b>34.5</b>

Third year:

BTGE-3755 Theology I.....	3
BTGE-3765 Theology II.....	3
EDUC-2500 Educational Psychology .....	3
EDUC-3100 Philosophical Foundations of Education .....	3
ESS-3890 Human Anatomy and Physiology for the Physical Educator.....	5
ESS-3900 Physiology of Exercise .....	3
ESS-3920 Biomechanics.....	3
MAHE-3130 School Health Program .....	3
MAHE-3100 Drug Education .....	3
MAPE-3600 Physical Education in Elementary School.....	5
PEAL-XXXX Outdoor Leisure Activity .....	1
Social Science/ Global Awareness Elective.....	3
<b>Total .....</b>	<b>38</b>

Summer:

EDUC-4000 Reading in the Content Area: Multi-Age .....	3
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Fourth year:

EDUC-4900 Student Teaching and Seminar: Multi-Age .....	12
MAHE-4610 Teaching Health.....	5
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
<b>Total .....</b>	<b>28</b>

**Minors**

**Coaching Minor**

The **coaching minor** prepares students to work as coaches in organized athletic programs at any level. Although formal education is not currently required of coaches, this particular program combines theoretical, scientific, and practical components to provide students with the knowledge and the skills they will need to succeed in this competitive yet rewarding area of service. The course requirements of the coaching minor make it a suitable complement to any major field of study offered by the University.

*Course requirements for a minor in coaching involve 17 semester hours including:*

CCHG-3670 Fundamentals of Coaching .....	3
CCHG-3680 Scientific Basis of Coaching .....	2
<b>One course selected from the following .....</b>	<b>2</b>
CCHG-3700 Coaching Volleyball .....	2
CCHG-3720 Coaching Basketball .....	2
CCHG-3730 Coaching Track and Field and Cross Country ..	2
CCHG-3740 Coaching Softball and Baseball.....	2
CCHG-3760 Coaching Soccer.....	2
CCHG-4950 Internship in Coaching.....	3
ESS-1400 First Aid and Safety Education .....	2
ESS-1550 Athletic Training Essentials .....	2
ESS-3800 Sport Psychology .....	3

**Sport Ministry Minor**

The purpose of the **sport ministry minor** is to assist the student who is preparing for a variety of ministries through the medium of sport. This minor is a good complement to many majors including sport management, world missions, and youth ministries.

*Course requirements for a minor in sport ministry involve 20–22 semester hours including:*

BTAT-2400 Personal Evangelism .....	3
BTAT-3410 Discipleship.....	3
CCHG-3670 Fundamentals of Coaching .....	3
ESS-1400 First Aid and Safety Education .....	2
ESSE-1350 Foundations of Sport Ministries .....	3
ESSE-2830 Recreational Leadership.....	2
<b>Two courses selected from the following.....</b>	<b>4–6</b>
BTPA-2260 World Religions .....	3
ESSE-2100 Wilderness Ministry .....	3
ESSE-2810 Introduction to Camping .....	2
MAPE-1210 Team Sports.....	2
MAPE-2200 Individual and Dual Sports I .....	2





# Department of Music and Worship

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## Purpose Statement

The Cedarville University Department of Music and Worship provides a high-quality Christ-centered undergraduate education in music and worship, building a strong artistic, intellectual, and practical foundation for professional careers and graduate studies. The department serves the University, church, and global community through outreach, performance, and educational activities. The faculty of teaching-artists is dedicated to the education of the whole person and committed to helping students realize their highest level of musicianship and development as human beings created in the image of God.

## Music Student Objectives

Upon completion of the music curricula and courses, music majors will:

- Develop and demonstrate technical skills required for artistic self-expression in at least one major performance area.
- Demonstrate artistic mastery of assigned repertoire appropriate to their performance field, and perform from a diverse cross-section of that repertoire.
- Identify and describe a broad range of music literature in terms of cultural sources, principle stylistic eras, and typical genres.
- Sight-read, with fluency, while demonstrating general musicianship and relevant, professional skills in their major performance area.
- Acquire and demonstrate proficient keyboard skills.
- Develop and use appropriate conducting and rehearsal skills, as required.
- Visually and aurally identify the basic elements of music (rhythm, melody, harmony, and form) and use this knowledge in aural, verbal, and written analyses.
- Demonstrate the ability to take aural dictation of rhythms, melodies, and harmonic progressions.
- Formulate aesthetic judgments, orally and in writing, with regard to musical analysis, processes and structures, composition, performance, scholarship, and pedagogy.
- Develop the rudimentary ability to improvise original music or to create a derivation or variation of an established work both extemporaneously and in writing.
- Recognize and identify, visually and aurally, representative compositions from each era of musical history, styles of particular composers within each era, and apply correct historical information to appropriate teaching situations.
- Demonstrate a working knowledge of technological developments applicable to musicians.
- Develop creative approaches to musical problem-solving through multiple modalities of thinking.
- Create and articulate a Christ-centered philosophy of music.
- Serve and enrich the University, church, and global community.

## Accreditation

Cedarville University is an accredited institutional member of the National Association of Schools of Music.

## Requirements for Music Admission

### Auditions

Applicants who wish to major in music should follow the standard procedures for admission. Satisfactory completion of an audition is required for approval as a music major.

Students should visit the website at [cedarville.edu/musicworship](http://cedarville.edu/musicworship) to obtain audition requirements and to schedule an audition.



## Scholarships

Scholarship assistance is available to music majors who qualify on the basis of audition, academic record, and references. Additional academic scholarships and other types of financial assistance are available to qualified individuals through Cedarville University Financial Aid.

## Music Theory Exams

All incoming students are required to pass the Music Theory Competency Exam. This test assures that students have the minimum knowledge necessary for college-level music theory courses. The exam is scheduled during Getting Started Week activities.

Students who have had significant music theory training prior to attending Cedarville may take the Music Theory Test-Out Exam. Contact the Department of Music and Worship for additional information regarding this test.

## Department Requirements

To graduate with a major from the Department of Music and Worship, students must earn at least a 2.0 cumulative average in all courses required for their major and a "C-" or higher in all courses taken to meet specific requirements in their major.

## Music Requirements

### Music Student Handbook

The *Music Student Handbook* is the authoritative statement on all department policy as it applies to the student. Each music student is responsible for following the policies and procedures contained in both the handbook and the University catalog. The handbook can be found online at [cedarville.edu/musicstudentresources](http://cedarville.edu/musicstudentresources)

## Private Lessons

Private lessons are open to all music majors and minors with curricular need. Students are expected to take private lessons on their major instrument for each semester they are enrolled. Exceptions to this include students who are student teaching and other circumstances as deemed appropriate by the chair. Private lessons are also open to nonmajors. Inquiries about nonmajor lessons should be directed to the Administrative Assistant in the Department of Music and Worship.

## Semester Performance Juries

All music majors perform a jury in their primary performing area every semester. The jury is a short performance for a committee of music faculty. The grade from the jury counts for 25 percent of the final grade in private lessons for the semester. For performance majors, the jury counts for 33 percent of the final grade in private lessons.

## Freshman Review

After the second semester of study, freshmen are evaluated by a committee of music faculty to determine whether they are making adequate progress to continue in the music program. Students who do not show satisfactory progress may be asked to change majors.

## Sophomore Check

While the primary screen for continuance in the music program occurs at the freshman review, student achievement is also checked at the end of the sophomore year to confirm adequate progress toward degree completion and admittance to upper-level music courses.

## Piano Proficiency

All music majors are expected to meet the minimum proficiency requirements for piano as established by the department. Piano placement is done during Getting Started Week. Complete piano proficiency requirements are available in the music office.

## Technology Proficiency

All music majors are expected to meet proficiency requirements for technology as established by the department. This requirement can be met by successfully passing a technology proficiency test or by passing THMU-1500 Introduction to Music Technology.

## Ensemble Participation

Music majors are required to participate in at least one large ensemble every semester they are enrolled. Once the credit requirements for their major is fulfilled, they may enroll for 0 credit.

Large ensembles include Brass Choir, Symphonic Band, Orchestra, Jazz Band, Concert Chorale, Jubilate, Men's Glee Club, and Women's Choir.

## Recital and Program Attendance

Attendance is required of all music majors and minors. All students must complete recital and program attendance each semester they are enrolled as a music major. Minors must take two semesters.

## Capstone Recital or Project

In addition to performance in general student recitals throughout the college experience, all music majors are required to exhibit a level of performance for graduation that meets the requirements and standards of the department. For all majors, the capstone requirement is a senior recital or project.

## Fees

Instrumental rental fee per semester is \$50. Practice room fee per semester is \$100 (each hour of lesson credit). Private lesson fee is \$300 per semester. Classes that involve labs or University-provided student equipment may also have similar fees.

## Worship Degree Objectives

The mission of the worship program is "Equipping Worshipers to Serve." Core values of the B.A. in worship degree include:

## Musical Emphasis

We value a core musical background for all worship students. We value contemporary music as the voice of our culture and will equip students to be musically and methodologically relevant in the "real world."

## Theological Foundation

We value a strong theological foundation, grounded in biblical truth for all worship students. The Bible minor and required classes will emphasize a biblical foundation for worship ministry.

## Interdisciplinary Nature

We value interdisciplinary study in fields related to worship ministry. We value each student developing God-given talents and interests, resulting in an individualized degree tailored for each student.

Upon completion of the B.A. curriculum in worship, students will be able to:

- Recognize and recall music theory principles and contemporary music practices.
- Analyze musical compositions by applying sound music theory principles.
- Perform proficiently in voice and either piano or guitar in a worship setting.
- Formulate and articulate a theology of worship based on sound biblical principles and valid biblical interpretation.
- Evaluate and critique the content and appropriateness of any worship medium (music, drama, media, etc.) by employing one's theology of worship as a foundation for evaluation.



- Plan, implement, and lead effective rehearsals and worship team building exercises for church or parachurch organizations.
- Plan, produce, and lead theologically sound and edifying corporate worship experiences for the local church or parachurch organization.
- Value and support the role that worship plays in the larger overall ministry and discipleship practice of the local church or parachurch organization.

## Worship Requirements

### Admission

Program application is required for all prospective worship students before admission into the worship program. The purpose of the audition is to evaluate your potential success as a worship student and whether you will be admitted to the department to pursue a worship degree. Guidelines for the audition can be found at [cedarville.edu/worship](http://cedarville.edu/worship).

### Private Lessons

All worship students are required to take private lessons. Students should study the instrument for which they are most proficient in order to improve their skills. Earnest practice is expected and mandatory for your success. Juries are required for each student taking private lessons.

### Ensembles

All worship students are required to participate in an ensemble every semester that they are on campus.

### Worship Forum

All worship students are required to participate in Worship Forum every semester that they are on campus. The Forum is designed to help address topics not easily addressed in class, to build community between worship students, and to allow students to work on projects and services together. The class is for zero credit and requirements will be given to you each semester.

### First-Year Review

All entering students are admitted into the worship program on a conditional basis. At the end of the first year, students will be asked to complete and submit information that will be combined with their first year grades, recommendations, and private lesson reviews to determine the potential success of each student in upper-level course work, field experience, internships, and as future worship leaders. The worship faculty members will meet during the week following graduation to evaluate each student's information and make final recommendations regarding the future of the student's ability to continue in the worship program.

### Second-Year Review

The members of the worship faculty will evaluate students' progress since the first-year review to see that the students are adequately moving toward completion of their degree programs.

### Worship Student Handbook

The *Worship Student Handbook* is the authoritative statement on all departmental policy as it applies to the student. Each worship student is responsible for following the policies and procedures contained in both the handbook and the University catalog. The handbook can be found online at [cedarville.edu/worship](http://cedarville.edu/worship).

## Programs of Study

The Department of Music and Worship offers the following programs of study:

### Bachelor of Arts (B.A.) in:

- Music
- Worship

### Bachelor of Music (B.M.) in:

- Composition
- Keyboard Pedagogy
- Performance

### Bachelor of Music Education (B.M.E.) in:

- Choral
- Instrumental

### Minors

- Music
- Music Technology
- Worship

## Technical Resources

The Department of Music and Worship relies heavily on the use of technology to accomplish its educational objectives. Music students will spend time in a state-of-the-art music computer/synthesizer lab that allows them to practice ear training, produce printed musical scores, and complete fully orchestrated compositions.

## Cocurricular Opportunities

All students are invited to audition for the numerous choral and instrumental ensembles that perform in many different venues throughout the academic year. Students may also participate in one of a growing number of small chamber music groups. Music education majors are required to participate in the collegiate chapter of the National Association for Music Education (NAfME). This award-winning chapter offers many professional and service opportunities to its members.



## Career Opportunities

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

- College professor
- Community arts manager
- Composer/arranger
- Instrument salesperson
- Minister of music
- Music editor
- Music librarian
- Music supervisor
- Music therapist
- Performer
- Recording studio technician
- Retail music salesperson
- School teacher (elementary and secondary Christian or public schools)
- Studio teacher
- Worship leader

## Faculty

**Beth Cram Porter**, *Chair*; Associate Professor of Vocal Music. *Education*: B.M., Baylor University, 1984; M.A., Western Carolina University, 1996; voice student of Joyce Farwell. At Cedarville since 1997.

**Connie Anderson**, Assistant Professor of Piano Pedagogy. *Education*: B.A., Cedarville University, 1973; M.M., Wright State University, 1994. At Cedarville since 1999.

**Lyle Anderson**, Professor of Music. *Education*: B.M.E., Cedarville University, 1970; M.A., The Ohio State University, 1971; Ph.D., The Ohio State University, 1977. At Cedarville since 1970.

**Charles Clevenger**, Senior Professor of Music. *Education*: B.A., Bob Jones University, 1974; piano student of Imogene Darling, Laurence Morton, Raymond Dudley, and Richard Morris; M.M., University of Cincinnati College-Conservatory of Music, 1976; D.M.A., University of Cincinnati College-Conservatory of Music, 1985. At Cedarville since 1982.

**Bruce Curlette**, Professor of Music. *Education*: B.S., Jacksonville State University, 1979; M.M., Eastman School of Music, 1981; clarinet student of D. Stanley Hasty; D.M.A., The Ohio State University, 1991; clarinet student of James M. Pyne. At Cedarville since 2001.

**Michael DiCuirci**, Senior Professor of Music. *Education*: B.M., University of Michigan, 1971; euphonium/ trombone student of Fred Snyder, Abe Torchinsky, and Glenn Smith; M.M., University of Michigan, 1977. At Cedarville since 1979.

**Carlos Elias**, Professor of Music. *Education*: Artist Diploma, Duquesne University, Pittsburgh, 1999; B.M., Biola University, 1990; M.M., College-Conservatory of Music University of Cincinnati 1993. At Cedarville since 2013.

**Austin Jaquith**, Assistant Professor of Music Theory and Composition. *Education*: B.M., Cleveland Institute of Music, 2003; M.M., University of Houston, 2005; D.M.A., Indiana University, 2009. At Cedarville since 2009.

**John Mortensen**, Professor of Music. *Education*: B.M.A., University of Michigan, 1988; piano student of Anne Koscielny and Raymond Hanson; M.M., University of Maryland, 1990; D.M.A., University of Maryland, 1994. At Cedarville since 1995.

**Roger O'Neel**, Associate Professor of Worship. *Education*: B.M., Ouachita Baptist University, 1985; M.M., Choral Conducting, Southern Methodist University, 1987; M.M., Music Theory, Southern Methodist University, 1988; Ph.D., University of Texas at Austin, 1996. At Cedarville since 2002.

**Charles Pagnard**, Professor of Music. *Education*: B.M., Bowling Green State University, 1970; trumpet student of Sidney Mear, Richard Jones, Edwin Betts, and Ettore Chiudioni; M.M., Eastman School of Music, 1976; graduate study, University of Cincinnati College-Conservatory of Music, 1984. At Cedarville since 1977.

**Susan Plemons**, Assistant Professor of Worship. *Education*: B.M., Baylor University, 1984; M.M., University of South Florida, 1996. At Cedarville since 2013.

**Mark Spencer**, Associate Professor of Music. *Education*: B.A., Judson College, 1981; M.M., Southwestern Baptist Theological Seminary, 1984; D.M.A., Southwestern Baptist Theological Seminary, 1992; voice student of Jack Coldiron. At Cedarville since 1993.

**Steven Winteregg**, Professor of Music. *Education*: B.M.E., University of Cincinnati College-Conservatory of Music, 1974; M.M., Wright State University, 1979; D.M.A., The Ohio State University, 1987. At Cedarville since 2004.

**Sandra Yang**, Assistant Professor of Music History. *Education*: B.A., University of California, Los Angeles, 1971; M.A., U.C.L.A., 1992; Ph.D., U.C.L.A., 1997. At Cedarville since 2009.

## Emeriti

**David Matson**, Professor Emeritus of Music History. *Education*: B.A., Cedarville University, 1960; graduate study, State College of Iowa, 1962–63; M.A., The Ohio State University, 1968; Ph.D., The Ohio State University, 1978. At Cedarville since 1965.

## Adjunct Faculty

- Lori Akins, flute
- Jim Cato, worship
- Jackie Davis, harp
- John Filbrun, guitar
- Lisa Grove, oboe
- Amy Hutchison, piano
- Jane Jaquith, viola
- Chet Jenkins, saxophone
- Michael LaMattina, percussion
- Andrew Millat, trombone
- Anton Neumayr, string bass
- Andrea Padgett, horn
- Andra Padrichelli, cello
- Lawrence Pitzer, guitar
- Tyler Shepard, guitar
- Crystal Stabenow, voice
- Cameron Voorhess, guitar
- Brandon Waltz, worship



## Composition

### Statement of Purpose

The **composition major** prepares the student for a career that involves film and concert composition, arranging, music production, and music entrepreneurship. Students are prepared with a solid foundation of musicianship that encompasses theory and aural skills, conducting, and instrumental or vocal performance. This foundation is then built upon through intensive studies in composition and technology that prepares students to be composers of the 21st century.



## Program Objectives

Upon completion of the B.M. degree in composition, students will be able to:

- Recognize and recall music theory principles and contemporary art music practices.
- Analyze musical compositions by applying sound music theory principles.
- Perform proficiently in his or her primary instrument.
- Compose in a variety of contemporary art music styles, and begin to develop their own compositional style.
- Recall and demonstrate an understanding of composing for various performing forces (i.e., different types of instrumental or vocal solos or ensembles).
- Write and produce a senior composition recital.
- Create a portfolio of original music and recordings.

Students pursuing this major must complete the general education core.

The following requirements involve 74–76 semester hours:

<b>Proficiencies</b> .....	<b>0–7</b>
<b>Piano</b> .....	<b>0–4</b>
CLMU-1810 Piano Class I.....	0–2
CLMU-1820 Piano Class II.....	0–2
THMU-1010 Introduction to Music Theory and Aural Skills ...	0–2
THMU-1500 Introduction to Music Technology .....	0–1
<b>Music Foundation and Skills</b> .....	<b>27–28</b>
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
<b>Select one of the following</b> .....	<b>2</b>
CDMU-3610 Choral Conducting .....	2
CDMU-3620 Instrumental Conducting .....	2
<b>Music Contexts</b> .....	<b>9</b>
HLMU-2310 Introduction to Music Literature .....	3
HLMU-3310, 3320 Music History I and II.....	6
<b>Music Performance</b> .....	<b>10</b>
PFMU-3100–3980 Large Ensemble .....	2
PLMU-1000/4830 Private Lessons .....	6
PLMU-3920 Junior Composition Project.....	1
*PLMU-4900 Senior Recital.....	1
<b>Music Composition</b> .....	<b>28–29</b>
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-1251 Music Technology I.....	3
TYMU-2250 Music Technology II.....	3
(or TYMU-2251 Music Technology III .....	3)
(or THMU-4140 Choral Arranging .....	2)
TYMU-3250 Music Technology IV .....	3

\*Capstone Course

## Composition Major Curriculum Summary

General Education Proficiency Requirements .....	0–5
General Education Requirements.....	48–56
Composition Major Requirements .....	74–81
Electives .....	0–6
<b>Total (minimum, not including proficiency)</b> .....	<b>128</b>

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

### First year:

BTGE-1720 Spiritual Formation .....	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-1251 Music Technology I.....	3
LIT-2XXX Literature Elective .....	3
Quantitative Elective.....	3
<b>Total</b> .....	<b>33</b>

### 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 the Christian Life .....	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
<b>Total</b> .....	<b>30</b>

### 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-2250 Music Technology II.....	3
(or TYMU-2251 Music Technology III .....	3)
(or THMU-4140 Choral Arranging.....	2)
TYMU-3250 Music Technology IV .....	3
Biology Elective .....	3.5
History Elective.....	3
<b>Total</b> .....	<b>34.5</b>

### 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
<b>Total</b> .....	<b>30.5</b>

## Keyboard Pedagogy

### Statement of Purpose

The purpose of the **Bachelor of Music degree in keyboard pedagogy** is to thoroughly equip graduates to professionally teach students the art of piano playing. The program is designed to comprehensively address the needs of piano students of all ages and levels of proficiency.

### Program Objectives

Through the keyboard pedagogy curriculum, students will be able to:

1. Identify criteria essential for professional piano teaching.
2. Identify the primary professional associations, periodicals, and industry partners which relate specifically to piano teaching.
3. Communicate effectively in one-on-one teaching.
4. Diagnose and correct technical problems of students.
5. Evaluate student progress through the establishment of educational goals and careful record keeping.
6. Sequence repertoire and auxiliary learning materials for beginning through advanced students
7. Apply practical criteria in the evaluation of methods books.
8. Incorporate current audio-visual, electronic keyboard, and computer technology in the piano studio setting.
9. Implement group instruction methods in their teaching.
10. Cope with performance anxiety and avoid physical injury.
11. Accurately and artistically perform all teaching repertoire for their students.
12. Demonstrate knowledge of business practices and organizational procedures necessary for the establishment of a professional piano studio.
13. Utilize effective teaching strategies appropriate for group instruction.
14. Demonstrate that they value and can perform the mentoring role of the piano teacher in the lives of their students.

Students pursuing this major must complete the general education core.

The following requirements involve 75–76 semester hours:

<b>Proficiencies</b> .....	<b>0–7</b>
<b>Piano</b> .....	<b>0–4</b>
CLMU-1810 Piano Class I.....	0–2
CLMU-1820 Piano Class II.....	0–2
THMU-1010 Introduction to Music Theory and Aural Skills...	0–2
THMU-1500 Introduction to Music Technology .....	0–1
<b>Music Foundation and Skills</b> .....	<b>25–26</b>
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
<b>Music Contexts</b> .....	<b>9</b>
HLMU-2310 Introduction to Music Literature .....	3
HLMU-3310, 3320 Music History I and II.....	6
<b>Music Performance</b> .....	<b>19</b>
PFMU-3100–3980 Large Ensemble .....	4
PLMU-1000/4830 Private Lessons .....	14
*PLMU-4900 Senior Recital.....	1
<b>Keyboard Pedagogy</b> .....	<b>22</b>
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 .....	0–5
General Education Requirements.....	48–56
Keyboard Pedagogy Major Requirements .....	75–82
Electives .....	0–5
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

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

### Suggested Four-Year Curriculum for a Major in Keyboard Pedagogy

#### First year:

BTGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
GMUS-1000 Music Philosophy and Aesthetics .....	1
GMUS-1030 Recital and Program Attendance (both semesters).....	0
PEF-1990 Physical Activity and the Christian Life .....	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
<b>Total .....</b>	<b>31</b>

#### 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
<b>Total .....</b>	<b>33</b>

#### 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
<b>Total .....</b>	<b>34.5</b>

#### 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
<b>Total .....</b>	<b>29.5</b>

**Music**

**Statement of Purpose**

The **Bachelor of Arts in music degree** is designed for students with a strong interest in music and other academic areas. It is an ideal degree for musically talented students who plan to pursue graduate programs that will accept a bachelor's degree in any academic major, such as law, international studies, and music therapy. The general studies credits within the major allow students to add specialized courses from any other area.

**Program Objectives**

Upon completion of the B.A. in music curriculum, students will be able to:

- Visually and aurally identify the building blocks of musical composition.
- Formulate, articulate, and defend a philosophy of music based upon sound interpretation of biblical principles.
- Demonstrate facility in the use of music technology.
- Perform proficiently in private lessons and in a large ensemble.
  - Recognize the factors that contribute to an artistic musical performance.
  - Fairly appraise and evaluate their musical performances as well as those of others.
  - Compile a repertory for their instrument.
- Research, plan, and perform/present a capstone senior recital or senior project.
- Value the functional role and stylistic diversity of music from various historical periods and cultures.

Course requirements involve 58 semester hours including:

<b>Proficiencies</b> .....	<b>0-7</b>
<b>Piano</b> .....	<b>0-4</b>
CLMU-1810 Piano Class I.....	0-2
CLMU-1820 Piano Class II.....	0-2
THMU-1010 Introduction to Music Theory and Aural Skills...	0-2
THMU-1500 Introduction to Music Technology .....	0-1
<b>Music Foundation and Skills</b> .....	<b>16</b>
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
<b>Music Contexts</b> .....	<b>9</b>
HLMU-2310 Introduction to Music Literature .....	3
HLMU-3310, 3320 Music History I and II.....	6
<b>Music Performance</b> .....	<b>8</b>
PFMU-3100-3980 Large Ensemble .....	2
PLMU-1000/4830 Private Lessons .....	6
<b>Music Concentrations</b> .....	<b>25</b>
Primary Concentration (includes capstone course) .....	13
Secondary Concentration .....	12
<b>Select primary and secondary concentrations from the following:</b>	
<b>Jazz and Improvisation Concentration</b> .....	<b>12-13</b>
HLMU-2100 Jazz History .....	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
<b>Music Composition Concentration</b> .....	<b>12-13</b>
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

<b>Music History Concentration</b> .....	<b>12-13</b>
HLMU-2100 Jazz History .....	2
HLMU-3400 Global Music.....	3
HLMU-4980 Special Topics in Music History .....	2
HLMU-3000/4000 elective .....	3
PLMU-3910 Junior Seminar.....	1
PLMU-4910 Senior Seminar .....	1
PLMU-4920 Senior Project .....	1
<b>Music Technology Concentration</b> .....	<b>12-13</b>
TYMU-1251 Music Technology I .....	3
TYMU-2250 Music Technology II .....	3
TYMU-2251 Music Technology III .....	3
TYMU-3250 Music Technology IV.....	3
*PLMU-4920 Senior Project.....	1
<b>Open Music Studies Concentration</b> .....	<b>12-13</b>
PLMU-3910 Junior Seminar.....	1
PLMU-4910 Senior Seminar .....	1
Electives (approved by advisor) .....	10
*PLMU-4920 Senior Project.....	1
<b>Performance Studies Concentration</b> .....	<b>12-13</b>
PFMU-3650 Small Ensemble.....	3
PLMU-1000-4830 Private Lessons .....	8
PLMU-3900 Junior Recital .....	1
*PLMU-4900 Senior Recital .....	1
<b>Worship Concentration</b> .....	<b>12-13</b>
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 .....	0-5
General Education Requirements.....	48-56
Music Major Requirements .....	58-65
Electives .....	7-22
<b>Total (minimum, not including proficiency)</b> .....	<b>128</b>



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

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

### First year:

BTGE-1720 Spiritual Formation .....	3
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 the Christian Life .....	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
<b>Total .....</b>	<b>32</b>

### 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
<b>Total .....</b>	<b>31</b>

### 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
<b>Total .....</b>	<b>32.5</b>

### 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
<b>Total .....</b>	<b>32.5</b>

## 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:

1. Display familiarity with the music of their instrument, including all essential music associated with their instrument.
2. Communicate effectively about music performance from a theological perspective.
3. Evaluate with professional awareness the important performers, recordings, institutions, and events that are significant to their instrument.
4. Develop skills concerning the intricacies of the physical technique of playing their instrument, and be able to articulate this knowledge to others.
5. Have the skills necessary to prepare for performance independent of outside teaching and assistance.
6. Professionally play their instrument with a high level of proficiency, and be able to integrate musical analysis with a variety of theoretical approaches.

Students pursuing this major must complete the general education core.



The following requirements involve 75–76 semester hours:

<b>Proficiencies</b> .....	<b>0–7</b>
<b>Piano</b> .....	<b>0–4</b>
CLMU-1810 Piano Class I.....	0–2
CLMU-1820 Piano Class II.....	0–2
THMU-1010 Introduction to Music Theory and Aural Skills ..	0–2
THMU-1500 Introduction to Music Technology .....	0–1
<b>Music Foundation and Skills</b> .....	<b>30–31</b>
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
<b>Select one of the following</b> .....	<b>2</b>
CDMU-3610 Choral Conducting .....	2
CDMU-3620 Instrumental Conducting .....	2
<b>Music Contexts</b> .....	<b>9</b>
HLMU-2310 Introduction to Music Literature .....	3
HLMU-3310 Music History I.....	3
HLMU-3320 Music History II.....	3
<b>Music Performance</b> .....	<b>22</b>
CLMU-2750 Performance Seminar .....	0
CLMU-2760 Performance Portfolio.....	0
PFMU-3100–3980 Large Ensemble .....	6
PLMU-1000/4830 Private Lessons (in major instrument) .....	14
PLMU-3900 Junior Recital.....	1
*PLMU-4900 Senior Recital.....	1
<b>Choose one concentration from the following</b> .....	<b>14</b>
<b>Instrumental Concentration</b> .....	<b>14</b>
EDMU-3750 Instrumental Pedagogy .....	2
PFMU-3650 Chamber Ensemble (2 x 1 credit).....	2
THMU-4130 Orchestration.....	2
<b>Select one of the following</b> .....	<b>1</b>
CLMU-2210 Brass Literature .....	1
CLMU-2220 Percussion Literature .....	1
CLMU-2230 String Literature .....	1
CLMU-2240 Woodwind Literature .....	1
Approved Electives .....	7
<b>Piano Concentration</b> .....	<b>14</b>
CLMU-2300 Keyboard Literature .....	2
CLMU-2310 Collaborative Piano (6 x 1 credit).....	6
<b>Select one of the following</b> .....	<b>3</b>
KPMU-2010 Keyboard Pedagogy I.....	3
KPMU-2020 Keyboard Pedagogy II.....	3
Approved Electives .....	3
<b>Vocal Concentration</b> .....	<b>14</b>
CLMU-1170, 1180 Diction for Singers I and II .....	4
CLMU-3120 Vocal Literature .....	3
CLMU-3130 Opera and Oratorio Literature.....	3
PFMU-3850 Opera Ensemble (2 x 1 credit).....	2
EDMU-3730 Vocal Pedagogy.....	2

Required Cognate: Proficiency in two different foreign languages, selected from French, German, Italian, and Spanish (Proficiency in each language may be satisfied by satisfactory completion of two years of the same high school foreign language or one semester of college-level foreign language.)

### Performance Major Curriculum Summary

General Education Proficiency Requirements .....	0–5
General Education Requirements.....	48–56
Performance Major Requirements.....	75–82
Electives .....	0–5
<b>Total (minimum, not including proficiency)</b> .....	<b>128</b>

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

### Suggested Four-Year Curriculum for a Major in Vocal Performance

#### First year:

BTGE-1720 Spiritual Formation .....	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 the Christian Life .....	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
<b>Total</b> .....	<b>32</b>

#### 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
<b>Total</b> .....	<b>33</b>

#### 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
EDMU-3730 Vocal Pedagogy .....	2
GMUS-1030 Recital and Program Attendance (both semesters).....	0
GSS-1100 Politics and American Culture.....	3
HLMU-3310, 3320 Music History I and II.....	6
PFMU-XXXX Ensemble Performance .....	0
PLMU-XXXX Private Lessons .....	4
PFMU-3850 Opera Ensemble .....	1
PLMU-3900 Junior Recital.....	1
Biology Elective .....	3.5
History Elective.....	3
<b>Total</b> .....	<b>34.5</b>

#### 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
<b>Total</b> .....	<b>28.5</b>

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

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

## Suggested Four-Year Curriculum for a Major in Instrumental Performance

### First year:

BTGE-1720 Spiritual Formation .....	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 the Christian Life .....	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
<b>Total .....</b>	<b>32</b>

### 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
<b>Total .....</b>	<b>30</b>

### 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
EDMU-3750 Instrumental Pedagogy .....	2
GMUS-1030 Recital and Program Attendance (both semesters) .....	0
GSS-1100 Politics and American Culture .....	3
HLMU-3310, 3320 Music History I and II .....	6
PFMU-XXXX Ensemble Performance .....	0
PFMU-XXXX Chamber Music .....	2
PLMU-XXXX Private Lessons .....	4
PLMU-3900 Junior Recital .....	1
Biology Elective .....	3.5
History Elective .....	3
<b>Total .....</b>	<b>32.5</b>

### 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
<b>Total .....</b>	<b>33.5</b>

## Suggested Four-Year Curriculum for a Major in Piano Performance

### First year:

BTGE-1720 Spiritual Formation .....	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 the Christian Life .....	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
<b>Total .....</b>	<b>32</b>

### 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
<b>Total .....</b>	<b>34</b>

### 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
<b>Total .....</b>	<b>32.5</b>

### 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
<b>Total .....</b>	<b>29.5</b>

## 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:

1. Effectively teach music at the elementary, middle, and high school levels by selecting appropriate methods, materials and music, planning course outcomes, and activities, presenting course content, and evaluating course outcomes.
2. Identify and recall current trends, curricula, and methodologies used in music education.
3. Pass the licensure examination in order to qualify as a teacher in a public school in Ohio.
4. Contribute to the community of professional music educators and continue personal lifelong growth in their chosen music field, including local, state, division, and national participation in the National Association for Music Education.
5. Integrate faith, learning, and life as it pertains to the discipline of music education.
6. Value music and the arts while inspiring enthusiasm for music and the arts in others.
7. Create inclusive music education settings that include both children with disabilities and children with extraordinary talents.
8. Articulate a working philosophy of music education.

The following requirements involve 95–102 (choral track) or 96–103 (instrumental track) semester hours:

<b>Proficiencies</b> .....	<b>0–7</b>
<b>Piano</b> .....	<b>0–4</b>
CLMU-1810 Piano Class I.....	0–2
CLMU-1820 Piano Class II.....	0–2
THMU-1010 Introduction to Music Theory and Aural Skills... 0–2	
THMU-1500 Introduction to Music Technology .....	0–1
<b>Music Foundation and Skills</b> .....	<b>28–29</b>
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
<b>Music Contexts</b> .....	<b>9</b>
HLMU-2310 Introduction to Music Literature .....	3
HLMU-3310, 3320 Music History I and II.....	6
<b>Music Performance</b> .....	<b>11</b>
PFMU-3100–3980 Large Ensemble .....	2
PLMU-1000/4830 Private Lessons .....	8
PLMU-4900 Senior Recital .....	1
<b>Music Education</b> .....	<b>15</b>
GMUS-1030 Recital and Program Attendance.....	0
EDMU-1000 NAFME.....	0
EDMU-3710 Music for Early Childhood .....	3
EDMU-3720 Music for Adolescent/Young Adult.....	3

*Choral majors also add:*

CLMU-1170 or 1180 Diction for Singers I or II .....	2
CDMU-3630 Choral Methods.....	2
EDMU-2730 Wind and Percussion Methods.....	2
EDMU-2900 Guitar Methods.....	1
EDMU-3730 Vocal Pedagogy.....	2

*Instrumental majors also add:*

EDMU-3910 Instrumental Administration .....	3
Three of the following .....	6
EDMU-2870 Brass Methods .....	2
EDMU-2910 Woodwind Methods .....	2
EDMU-2930 String Methods.....	2
EDMU-2950 Percussion Methods.....	2

### Teacher Education.....**32**

EDSE-3900 Music Ed. Field Experience .....	2
EDSP-2000 Teaching Children with Exceptionalities .....	1
EDSP-2050 Field Experience: Exceptional Learning Needs ....	1
EDUC-1000 The Education Profession.....	2
EDUC-1050 Preliminary Student Involvement .....	0
EDUC-2000 Introduction to Diverse Learners .....	2
EDUC-2100 Technology in the Classroom .....	2
EDUC-2200 Multicultural Field Experience .....	1
EDUC-2500 Educational Psychology .....	3
EDUC-3100 Philosophical Foundations of Education .....	3
EDUC-4000 Reading in the Content Area: Multi-Age .....	3
*EDUC-4900 Student Teaching and Seminar–Multi-Age.....	12

\*Capstone Course

### Music Education (Multi-Age) — Choral Major Curriculum Summary

General Education Proficiency Requirements .....	0–5
General Education Requirements.....	48–56
Music Education — Choral Major Requirements.....	95–102
<b>Total (minimum, not including proficiency) .....</b>	<b>143</b>

### Music Education (Multi-Age) — Instrumental Major Curriculum Summary

General Education Proficiency Requirements .....	0–5
General Education Requirements.....	48–56
Music Education — Instrumental Major Requirements.....	96–103
<b>Total (minimum, not including proficiency) .....</b>	<b>144</b>



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

## Suggested Four-Year Curriculum for a Major in Music Education Multi-Age

### First year:

BTGE-1720 Spiritual Formation	3
COM-1100 Fundamentals of Speech	3
EDMU-1000 NAFME (both semesters)	0
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
PEF-1990 Physical Activity and the Christian Life	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
EDMU-2900 Guitar Methods	1
<b>Choral Total</b>	<b>34</b>

### Instrumental Majors Add:

EDMU-XXXX Instrumental Methods Electives	4
<b>Instrumental Total</b>	<b>35</b>

### Second year:

BTGE-2730 Old Testament Literature	3
BTGE-2740 New Testament Literature	3
CDMU-2600 Introduction to Conducting	2
EDMU-1000 NAFME (both semesters)	0
EDSP-2000 Teaching Children with Exceptionalities	1
EDSP-2050 Field Experience: Exceptional Learning Needs	1
EDUC-2000 Introduction to Diverse Learners	2
EDUC-2100 Technology in the Classroom	2
EDUC-2200 Multicultural Field Experience	1
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
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
<b>Total</b>	<b>36</b>

### Third year:

BTGE-3755 Theology I	3
BTGE-3765 Theology II	3
EDMU-1000 NAFME (both semesters)	0
EDMU-3710 Music for Early Childhood	3
EDMU-3720 Music for Adolescent/Young Adults	3
EDSE-3900 Music Ed. 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
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
<b>Choral Total</b>	<b>35</b>

### Instrumental Majors Add:

CDMU-3620 Instrumental Conducting	2
EDMU-3910 Instrumental Administration	3
<b>Instrumental Total</b>	<b>36</b>

### Summer:

EDUC-4000 Reading in the Content Area: Multi-Age	3
--	---

### Fourth year:

EDMU-1000 NAFME (both semesters)	0
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
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:

EDMU-2730 Wind and Percussion Methods	2
EDMU-3730 Vocal Pedagogy	2
<b>Choral Total</b>	<b>35</b>

### Instrumental Majors Add:

CLMU-1860 Voice Class	1
EDMU-XXXX Instrumental Methods Elective	2
<b>Instrumental Total</b>	<b>34</b>





**Worship**

The **Bachelor of Arts in worship degree** is an interdisciplinary degree designed to help prepare students who are interested in careers in worship leadership and related fields. All students must take courses in music, theology, and worship-related fields such as theatre, broadcasting and digital media, or youth ministry.

Elective hours can be used to complete minors or to double major. Students pursuing this major must complete the general education core.

The following requirements involve 56–61 semester hours:

<b>Music</b> .....	<b>14–19</b>
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 Guitar .....	0–2
THMU-1010 Introduction to Music Theory and Aural Skills .....	0–2
THMU-1250 Contemporary Musicianship I .....	2
THMU-2250 Contemporary Musicianship II .....	2
THMU-2260 Contemporary Musicianship III .....	2
PLMU-1000–4830 Private Lessons .....	6
PFMU-3100–3980 Large Ensembles .....	2
<b>Worship</b> .....	<b>18</b>
WSHP-1010 Introduction to Worship Ministry .....	1
WSHP-1020 Introduction to Worship Technologies .....	2
WSHP-2060 Music and the Arts in Worship .....	3
WSHP-2100 Worship Forum (every semester) .....	0
WSHP-2200 Worship Field Experience .....	1
WSHP-3100 Worship Practicum .....	2
WSHP-4900 Worship Internship .....	3–9
<b>Theology</b> .....	<b>12</b>
BTOT-3140 Psalms .....	3
BTAT-3410 Discipleship .....	3
BTHT-3720 Spiritual Formation II .....	3
BTAT-3730 Theology of Worship .....	3
<b>Specified Electives</b> .....	<b>12</b>
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 and digital media, 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.	
<b>Worship Major Curriculum Summary</b>	
Proficiency Requirements .....	0–5
General Education Requirements .....	51–59
Worship Major Requirements .....	56–61
Electives .....	8–21
<b>Total (minimum, not including proficiency)</b> .....	<b>128</b>

**Suggested Four-Year Curriculum for a Major in Worship**

<i>First year:</i>	
BTGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech .....	3
ENG-1400 Composition .....	3
HUM-1400 Introduction to the Humanities .....	3
THMU-1250 Contemporary Musicianship I .....	2
PEF-1990 Physical Activity and the Christian Life .....	2
PFMU-XXXX Large Ensemble Performance .....	2
PLMU-XXXX Private Lessons .....	2
WSHP-1010 Introduction to Worship Ministry .....	1
WSHP-1020 Introduction to Worship Technologies .....	2
WSHP-2100 Worship Forum (both semesters) .....	0
LIT-2XXX Literature Elective .....	3
Electives .....	6
<b>Total</b> .....	<b>32</b>
<i>Second year:</i>	
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
<b>Total</b> .....	<b>32</b>
<i>Third year:</i>	
BTGE-3755 Theology I .....	3
BTGE-3765 Theology II .....	3
BTAT-3410 Discipleship .....	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
History Elective .....	3
Specified Electives .....	9
Electives .....	3
<b>Total</b> .....	<b>31</b>
<i>Fourth year:</i>	
BTOT-3140 Psalms .....	3
BTHT-3720 Spiritual Formation II .....	3
PFMU-XXXX Ensemble Performance .....	0
WSHP-2100 Worship Forum .....	0
WSHP-3100 Worship Practicum .....	0
WSHP-4900 Worship Internship .....	3–9
Biology Elective .....	3.5
Humanities Elective .....	3
Physical Science Elective .....	3.5
Specified Electives .....	3
Electives .....	5
<b>Total</b> .....	<b>33</b>



**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



**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-1251 Music Technology I.....	3
TYMU-2250 Music Technology II.....	3
TYMU-2251 Music Technology III.....	3
TYMU-3250 Music Technology IV .....	3





# School of Nursing

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## **Mission Statement**

As a Christ-centered learning community, the Cedarville University School of Nursing is dedicated to influencing the profession of nursing for Jesus Christ, domestically and globally. In this environment, we contribute to the body of nursing knowledge, provide leadership in nursing and health care arenas, and produce graduates who are grounded in biblical truth and demonstrate mastery in four primary areas: care, culture, godly living, and information management.

## **Accreditation and Licensure**

The School of Nursing program is accredited by the Commission on Collegiate Nursing Education and has full approval by the Ohio Board of Regents and the Ohio Board of Nursing.

## **Admission**

Students who wish to apply for admission to Cedarville University and major in nursing need a strong commitment to leading a godly lifestyle and to learning ways to use nursing as a ministry for Christ. Acceptance by Cedarville University does not guarantee acceptance into the nursing major. A college preparatory curriculum including four years of both mathematics and science (algebra, biology, and chemistry are required) provides the best academic preparation for the nursing major. An ACT composite score of 24 (or SAT composite of 1100) or higher is required to enter the program. A select number of students who have not achieved these scores, but who have met the above curricular requirements and are otherwise eligible for admission to the University, may be admitted as pre-nursing students. Pre-nursing students may submit a change of major form to declare nursing as a major if they earn a 3.0 cumulative GPA by the end of their freshman year at Cedarville University.

## **Progression**

Phase I: Attain a 3.0 GPA while completing required freshman and sophomore course work.

Phase II: Apply for progression audit to enter-upper level clinical courses during the spring semester of the sophomore year and receive notification of final status before the end of spring semester. Full progression will be granted provided student meets the requirements specified in the progression section of the School of Nursing Student Handbook and based on availability of faculty to oversee and the number of clinical openings in contracted sites to provide clinical experiences. In the event numbers of eligible students exceed clinical placements available, registration for upper-level clinical courses will be determined by GPA ranking.

Phase III: Maintain a 2.5 GPA while completing required junior and senior course work.

## **Academic Requirements**

- Earn a grade of C- or higher in all nursing, psychology, and science courses.
- Earn an exam average of  $\geq 75$  percent in all nursing courses.
- A failing grade or a withdrawn failing in any of the specified courses will result in removal from the major.
- Complete required prerequisite courses prior to progression in upper-level clinical courses.
- Students may have no more than four outstanding general education or Bible courses at the start of upper-level clinical courses.
- Meet all clinical objectives and fulfill all clinical requirements.

## **Nonacademic Requirements**

Students must practice the characteristics of empathy, integrity, respect, self-confidence, self-motivation, stewardship, teamwork, diplomacy, time management, dependability, and tolerance. Faculty reserves the right at any time to enact probation or remove from the nursing major students 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 in any phase of progression, the status of that student will be changed to probation.

## **Removal From Nursing Major**

A student will be removed from the major for the following reasons:

- Failure to meet academic, nonacademic, technical, or clinical requirements while on probation.
- Demonstration of behavior that is not consistent with professional standards concerning health, safety, ethics, and behavior.
- Second semester course failure or second semester violation of nonacademic/technical requirements.

Readmission when a student has been removed from the nursing major may be considered only when the student has been out of the nursing major for at least one calendar year.

## **Graduation**

Candidates for the B.S.N. degree must complete the required 129 semester hours, earn a grade of C- or better in all nursing courses, maintain a GPA of 2.5 or higher, register for the NCLEX-RN examination, apply for state licensure, and meet University requirements for graduation.

## **Financial Aid**

Federal Nursing Student Loans are available to qualified students who have been admitted to the nursing program. Some scholarships are available through endowments, although primarily offered to nursing upperclassmen. Information is available at [cedarville.edu/finaid](http://cedarville.edu/finaid).

## **Programs of Study**

Cedarville's nursing program leads to a Bachelor of Science in Nursing (B.S.N.) degree. Nursing students may also elect to earn a minor in cross-cultural nursing.

## **Cocurricular Opportunities**

### **Christian Nurses Association**

The Christian Nurses Association promotes spiritual growth and professional development for nurses and service for the community. Membership is open to all nursing students.

### **Alpha Iota Alpha (AIA) Men in Nursing**

The vision and mission of AIA is to have a Christlike influence on the nursing profession and to mentor male nursing students who desire to live and practice nursing guided by Christ's example. All male nursing students are eligible to enroll.

## Technical Resources

- State-of-the-art high fidelity simulation center
- Moderate fidelity clinical nursing and practice centers
- Eight-unit outpatient clinical center

## Career Opportunities

Graduate and professional schools welcome Cedarville graduates. Nursing graduates obtain positions in the following settings: medical centers, public health departments, home health agencies, clinics, nursing homes, schools, work sites, mental health facilities, and mission fields.

## Faculty

**Angelia Mickle**, *Interim Dean*, Assistant Professor of Nursing. *Education*: A.A.S. Nursing, Central Carolina Community College, 1991; B.S.N., Indiana Wesleyan University, 1999; M.S.N., Indiana Wesleyan University, 2008. D.N.P., University of Tennessee, 2013. At Cedarville since 2008.

**Carolyn Barnett**, Assistant Professor of Nursing. *Education*: L.P.N., Lewis Wilson Technological Center, 1979; B.S.N., Cedarville University, 1986; M.S.N., University of Phoenix, 2006. At Cedarville since 1997.

**Mary Becker**, Assistant Professor of Nursing. *Education*: B.S.N., Cedarville University, 2006; M.S.N., University of Rochester, 2012. At Cedarville since 2013.

**Linda Cave**, Assistant Professor of Nursing. *Education*: B.S., University of Northern Colorado, 1981; M.S., University of Colorado Health Sciences Center, 1983. At Cedarville since 1989.

**Sharon Christman**, Professor of Nursing; Joint Professor of Pharmacy. *Education*: B.S.N., Cedarville University, 1992; M.S., The Ohio State University, 1995; A.N.P., The Ohio State University, 2000; Ph.D., The Ohio State University, 2003. At Cedarville since 1997.

**Elizabeth Delaney**, Assistant Professor of Nursing. *Education*: B.S.N., Wright State University, 1988; M.S., Wright State University, 1992. At Cedarville since 2012.

**Clifford Fawcett III**, Assistant Professor of Nursing. *Education*: B.S.N., Cedarville University, 1988; M.Ed., University of Virginia, 1989; M.S.N., University of Delaware, 1997. At Cedarville since 2010.

**Connie Ford**, Associate Professor of Nursing; Joint Professor of Pharmacy. *Education*: Diploma, Bethesda Hospital School of Nursing, 1977; B.S.N., Xavier University, 1989; M.S., Wright State University, 1992; F.N.P., Wright State University, 2003. At Cedarville since 1993.

**Kimberly Higginbotham**, Assistant Professor of Nursing. *Education*: B.S.N., Cedarville University, 1993; M.S.N., University of Virginia, 2000. At Cedarville since 2000.

**Chu-Yu Huang**, Professor of Nursing. *Education*: A.D.N., Foo Yin Nursing Junior College of Nursing, Taiwan, 1989; B.S.N., University of Dubuque, 1992; M.S., The Ohio State University, 1995; Ph.D., The Ohio State University, 2001. At Cedarville since 2001.

**Carrie Keib**, Associate Professor of Nursing. *Education*: B.S.N., Liberty University, 1999; M.S., The Ohio State University, 2005; Ph.D., The Ohio State University, 2007. At Cedarville since 2007.

**Mark Klimek**, Associate Professor of Nursing. *Education*: A.A.S. Nursing, Youngstown State University, 1974; B.S.N., University of Virginia, 1977; M.S.N., Wayne State University, 1979; graduate study, Wayne State University, 1987. At Cedarville since 1983.

**Suzanne Lefever**, Associate Professor of Nursing. *Education*: B.S.N., Goshen College, 1983; M.S., SUNY-Stony Brook Neonatal Nurse Practitioner Program, 2004. At Cedarville since 2001.

**Janet Neal**, Assistant Professor of Nursing. *Education*: B.S.N., Austin Peay State University, 1983; M.S.N., Indiana Wesleyan University, 2008; D.N.P., University of Cincinnati, 2014. At Cedarville since 2008.

**Rachel Parrill**, Associate Professor of Nursing. *Education*: B.S.N., Cedarville University, 1997; M.S., Wright State University, 2006; Ph.D., Walden University, 2011. At Cedarville since 2005.

**Peter Savard**, Assistant Professor of Nursing. *Education*: B.S.N., Cedarville University, 1990; M.S., Wright State University, 2015. At Cedarville since 2015.

**Amy Voris**, Associate Professor of Nursing. *Education*: B.S.N., University of Cincinnati, 1981; M.S., Wright State University, 2002; D.N.P., Chatham University, 2010. At Cedarville since 2005.

**Rebecca Wagner**, Assistant Professor of Nursing. *Education*: B.S.N., University of Delaware, 1977; M.S.N., University of Phoenix, 2007; Ed.D., Liberty University, 2014. At Cedarville since 2014.

## Emeriti

**Irene Alyn**, Distinguished Professor Emerita of Nursing. *Education*: B.A., Taylor University, 1962; Diploma, Cook County School of Nursing, 1962; M.S.N., University of Illinois, 1965; Ph.D., University of Illinois, 1972. At Cedarville 1981–2007.

**Lois Baker**, Senior Professor of Nursing. *Education*: Diploma, Blodgett Memorial Medical Center School of Nursing, 1974; B.R.E., Grand Rapids Baptist College, 1975; B.S.N., Nazareth College, 1982; M.S.N., University of Cincinnati, 1984; Ph.D., Wayne State University, 1991. At Cedarville 1984–2014.

**Carolyn Carlson**, Distinguished Professor Emerita of Nursing. *Education*: B.S., Capital University, 1959; M.S., U.C.L.A., 1962; M.A., University of Colorado, 1972; Ph.D., University of Colorado, 1972. At Cedarville 1988–2007.

**Janet Conway**, Senior Professor Emerita of Nursing. *Education*: Diploma, Hackley Hospital School of Nursing, 1965; B.S.N., Coe College, 1976; M.S., University of Arizona, 1979; Specialist in Clinical Nursing, Indiana University, 1982; Ph.D., University of Texas, 1988. At Cedarville 1982–2013.

**Judith Shrubsole**, Associate Professor Emerita of Nursing. *Education*: Diploma, Hamilton Civic Hospital School of Nursing, 1965; Diploma, University of Western Ontario, 1967; B.Sc.N., University of Western Ontario, 1968; M.S., D'Youville College, 1992; Ph.D., Rush University, 2003. At Cedarville 1992–2010.

## Nursing Laboratories

**Karen Callan**, *Director of Nursing Laboratory Programs and Facilities*. *Education*: B.S.N., Cedarville University, 1985. At Cedarville since 1992.

## Clinical Activity Information

### Facilities

All clinical activity is conducted under the supervision of the Cedarville University School of Nursing faculty. The program utilizes a number of community resources including public and private, large and small hospitals, health departments, mental health services, rehabilitation centers, clinics, homes for the aged, and physician's offices.

### Clinical Requirements

Students are required to have a background check, current CPR/BLS certification, liability insurance, uniforms, equipment, photo identification, and transportation for clinical experiences.

### Health Information

Prior to clinical nursing courses, students must provide documentation of:

- a) Complete physical examination
- b) Childhood immunizations
- c) Negative 2-step Mantoux test followed by annual Tb testing
- d) Tetanus booster or Tdap (within last 10 years)
- e) Hepatitis B vaccine series and Hepatitis B titer
- f) Influenza vaccine
- g) Current health insurance coverage

### Additional Program Expenses (estimated)

Year 1 and 2: \$500–\$2000 (laptop computer (required), uniforms, clinical equipment, CPR/BLS certification, immunizations, physical exam, background check, transportation expenses)

Year 3: \$350–\$650 (immunization updates, CPR recertification, transportation expenses)

Year 4: \$800–\$1200 (Licensure application, NCLES-RN registration, background check, immunizations updates, transportation expenses)

## Nursing Course Requirements

In addition to completing the general education requirements, nursing majors must take the following courses. These requirements are divided into two segments, *support cognate requirements and nursing major requirements*.

*The support cognate requirements, many of which satisfy general education requirements, include:*

CHEM-1000 Principles of Chemistry .....	5
GBIO-2010 Human Anatomy and Physiology I .....	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 .....	4
NSG-2000 Roles in Disease Prevention .....	4
NSG-2050 Roles in Disease Management .....	4
NSG-3000 Care of Ill Adults .....	6
NSG-3010 Nursing Care of Women and Newborns .....	6
NSG-3030 Care of Children .....	6
NSG-3050 Behavioral and Mental Health Care .....	6
NSG-3110 Pharmacology .....	3
NSG-3930 Nursing Research and Evidence-Based Practice .....	3
NSG-4000 Care of Populations .....	6
NSG-4020 Nursing Leadership/Management .....	6
NSG-4030 Complex Care Management .....	6
NSG-4060 Transition Into Practice .....	6
*NSG-4950 Seminar in Nursing .....	3

\*Capstone Course

### Nursing Major Curriculum Summary

Proficiency Requirements .....	0–5
Other General Education Requirements .....	35
Nursing Major Requirements .....	71
Required Cognates .....	23
<b>Total (minimum, not including proficiency) .....</b>	<b>129</b>



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

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

### First year:

BTGE-1720 Spiritual Formation .....	3
BTGE-2730 Old Testament Literature.....	3
CHEM-1000 Principles of Chemistry .....	5
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
GBIO-2010 Human Anatomy and Physiology I.....	4
HUM-1400 Introduction to the Humanities.....	3
NSG-1000 Member of Nursing Profession.....	2
NSG-1050 Health Promotion and Wellness.....	4
PYCH-1600 General Psychology.....	3
<b>Total .....</b>	<b>33</b>

### Second year:

BTGE-2740 New Testament Literature .....	3
BTGE-3755 Theology I.....	3
GBIO-2015 Human Anatomy and Physiology II .....	4
GBIO-2210 Principles of Microbiology.....	4
GSS-1100 Politics and American Culture.....	3
NSG-2000 Roles in Disease Prevention.....	4
NSG-2050 Roles in Disease Management.....	4
NSG-3110 Pharmacology.....	3
PEF-1990 Physical Activity and the Christian Life .....	2
PYCH-2610 Statistics.....	3
<b>Total .....</b>	<b>33</b>

### Third year:

BTGE-3765 Theology II.....	3
LIT-2XXX Literature Elective.....	3
NSG-3000 Care of Ill Adults.....	6
NSG-3010 Nursing Care of Women and Newborns.....	6
NSG-3030 Care of Children.....	6
NSG-3050 Behavioral and Mental Health Care.....	6
NSG-3930 Nursing Research and Evidence-Based Practice.....	3
<b>Total .....</b>	<b>33</b>

### 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
<b>Total .....</b>	<b>30</b>

## Minor

### Cross-Cultural Nursing Minor

Students anticipating service in intercultural or international settings may choose an emphasis in cross-cultural nursing.

Course requirements involve an additional 16 semester hours selected from:

BTPA-2260 World Religions.....3

#### One course selected from.....3

ANTH-1800 Cultural Anthropology..... 3

BTAT-3470 Cross-Cultural Ministry..... 3

PYCH-1800 Cross-Cultural Psychology..... 3

#### One course selected from.....3

BTAT-2000 Introduction to Mission..... 3

BTAT-2400 Personal Evangelism..... 3

BTAT-3410 Discipleship..... 3

BTAT-3450 Contemporary World Missions..... 3

BTAT-3510 Introduction to Urban Ministry..... 3

NSG-2200 Cross-Cultural Interactions..... 1

\*NSG-4200 Culture and Health.....3

#### Credits selected from.....3

NSG-3200 Cross-Cultural Nursing Internship..... 1-3

NSG-4800 Independent Study..... 1-2

\*Crosslisted as an honor's seminar.





# School of Pharmacy

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## Admission/Preferred Admission

The Bachelor of Science in Pharmaceutical Sciences (B.S.P.S.) degree curriculum includes courses in the professional Doctor of Pharmacy (Pharm.D.) degree curriculum, which are only accessible to students who have been admitted to the Pharm.D. program (unless an exception is granted by the School of Pharmacy). The B.S.P.S. degree curriculum includes all of the courses required for admission to the Cedarville University Doctor of Pharmacy program. The final course in the B.S.P.S. degree curriculum is typically completed during the fall semester of the second professional (P2) year in the Doctor of Pharmacy program.

Students intending to pursue a career in pharmacy - thus, pursue a Pharm.D. degree – should choose pharmaceutical sciences as their major. NOTE: Failure to be granted admission to the Pharm.D. program (which would occur during the academic year prior to the 1st professional (P1) year in the Pharm.D. program), or be granted an exception to complete the B.S.P.S. by the School of Pharmacy in the absence of such admission, will result in an inability to complete this degree.

Undergraduate students at Cedarville University in the pharmaceutical sciences major may compete for Preferred Admission to the Pharm.D. program as early as their senior year in high school and continuing throughout their undergraduate studies. Preferred Admission is awarded to a select number of students who have demonstrated the aptitudes and skills necessary for successful pursuit of a career in pharmacy. This status reserves a seat for the student in the class size-limited Pharm.D. program, associated with a specific School-established start date in the Pharm.D. program. Students with Preferred Admission status are exempt from competing against other applicants for a seat in the program. The granting of Preferred Admission status involves two steps.

First, students obtain admission to the University. Second, students compete for preferred admission to the School of Pharmacy. That competition begins with an invitation by the Pharmacy Admissions Committee to apply for Preferred Admission to the School of Pharmacy. Those invitations are based upon the following criteria:

1. Declared interest in pharmacy
2. Academic curriculum
3. Cumulative GPA (high school or collegiate)
4. ACT composite and subscores of at least 23 (or SAT subscores of 530 or higher)(for high school students)

The Pharmacy Admissions Committee begins inviting students to apply by the first week of October. The application process involves submitting an essay and scheduling an interview with the Pharmacy Admissions Committee. Interviews typically begin in mid-November and continue until all Preferred Admission seats are filled. Final selection is based upon performance in the interview and on the essay.

Students who do not wish to compete for preferred admission or who do not qualify for preferred admission as a new student may still take the B.S.P.S. curriculum and apply for Preferred Admission, or make direct application to the Pharm.D. program, later in their academic journey. The Admissions Committee considers applications of undergraduate students for Preferred Admission at the end of each academic year.

### Preferred Admission Continuation Requirements

In order to continue with Preferred Admission status, students must meet the following requirements:

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 B.S.P.S. degree curriculum with an aim toward regaining Preferred Admission status and/or applying directly to the Pharm.D. program at the appropriate time.

2. Earn a minimum grade of "C" in all courses identified as prerequisites for admission to the Pharm.D. program (see Graduate and Adult Programs Academic Catalog). Students may repeat any course for which a "C" was not earned. Exceptions to this requirement are applied to select two-semester sequence courses (General Chemistry, Organic Chemistry, Human Structure and Function) in which students may continue with a C- in either semester of the sequence as long as they earn a grade of at least C+ in the complementary course of the sequence.

All prerequisite and application requirements for the Pharm.D. program are found in the Graduate and Adult Programs Academic Catalog.

### Financial Aid

B.S.P.S. students benefit from all scholarship programs available to other Cedarville University students. For students continuing into the professional Pharm.D. program (completing their B.S.P.S. degree as part of their professional studies) after three years of undergraduate study at Cedarville University, the University aid will continue to be available through the first professional year.



## Career Opportunities

The demand for pharmacists appears to be strong for many years to come. Current shortages as well as changes and advances in science and health care will create abundant opportunities for pharmacy graduates. These opportunities may include:

- Clinical specialist in cardiology, oncology, nutrition, infectious disease, diabetes mellitus, psychiatry, etc.
- Community pharmacist
- Compounding pharmacist
- Consultant pharmacist in geriatrics, palliative care, etc.
- Hospital pharmacist
- Long-term care pharmacist
- Managed care pharmacist
- Nuclear pharmacist
- Pediatrics pharmacist

## Faculty

**Marc Sweeney**, *Dean*; Professor of Pharmacy Practice.

*Education:* B.S., Pharm., Ohio Northern University, 1993; Pharm.D., The Ohio State University, 1997; M.Div., Southwest Bible College and Seminary, 2006. At Cedarville since 2008.

**Jeffrey Lewis**, *Associate Dean*; Associate Professor of Pharmacy Practice. *Education:* B.S., Pharm., Ohio Northern University, 1986; Pharm.D., University of Cincinnati, 1988, MACM, Malone University, 2004. At Cedarville since 2009.

### Department of Pharmacy Practice

**Douglas Anderson**, *Chair*; Professor of Pharmacy Practice. *Education:* B.S., Pharmacy, University of Oklahoma, 1988; Pharm.D., University of Oklahoma, 1992. At Cedarville since 2009.

**Aleda Chen**, *Vice Chair*; Assistant Professor of Pharmacy Practice. *Education:* Pharm.D., Ohio Northern University, 2006; M.S., Purdue University, 2009; Ph.D., Purdue University, 2011. At Cedarville since 2011.

**Miriam Ansong**, *Director, Drug Information Center*; Associate Professor of Pharmacy Practice. *Education:* Pharm.D., Howard University College of Pharmacy, 1998. At Cedarville since 2012.

**John Ballentine**, Associate Professor of Pharmacy Practice. *Education:* B.S., Pharmacy, University of Houston, 1989; Pharm.D., University of Kentucky, 1991. At Cedarville since 2011.

**Ginger Cameron**, *Assistant Dean of Assessment*; Assistant Professor of Pharmacy Practice. *Education:* B.A., Union University, 1996; M.A., Central Michigan University, 2003; M.Sc., Walden University, 2008; Ph.D., Walden University, 2012. At Cedarville since 2013.

**Marty Eng**, Associate Professor of Pharmacy Practice. *Education:* Pharm.D., University of Maryland, Baltimore School of Pharmacy, 2000. At Cedarville since 2012.

**Thad Franz**, *Director of Experiential Programs*. Assistant Professor of Pharmacy Practice. *Education:* B.S., Pharmaceutical Science, The Ohio State University, 2003; Pharm.D., The Ohio State University, 2005. At Cedarville since 2012.

**Melody Hartzler**, Assistant Professor of Pharmacy Practice. *Education:* Pharm.D., Ohio Northern University, 2009. At Cedarville since 2010.

**Jeff Huston**, Instructor of Pharmacy Practice. *Education:* B.S., Pharmacy, Ohio Northern University, 1990. At Cedarville since 2010.

**Zach Jenkins**, Assistant Professor of Pharmacy Practice. *Education:* Pharm.D., Northeast Ohio Medical University. At Cedarville since 2013.

**Emily Laswell**, Assistant Professor of Pharmacy Practice. *Education:* Pharm.D., Ohio Northern University, 2012. At Cedarville since 2013.

**Chelsea Manion**, Assistant Professor of Pharmacy Practice. *Education:* Pharm.D., Ohio Northern University, 2013. At Cedarville since 2014.

**Brenda Pahl**, Assistant Professor of Pharmacy Practice. *Education:* B.S., Ohio Northern University, 1991; Pharm.D., The Ohio State University, 2007. At Cedarville since 2015.

**Mark Pinkerton**, Assistant Professor of Pharmacy Practice. *Education:* B.A. in chemistry, Cedarville University, 1983; M.S. in chemistry, Miami University, 1985; M.D., Medical College of Ohio at Toledo, 1991. At Cedarville since 2014.

**Andrew Straw**, Assistant Professor of Pharmacy Practice. *Education:* Pharm.D., Ohio Northern University, 2014. At Cedarville since 2015.

**Dennis Sullivan**, Professor of Pharmacy Practice. *Education:* B.S., Youngstown State University, 1974; M.D., Case Western Reserve University, 1978; Diplomate, American Board of Surgery, 1985; Fellow, American College of Surgeons, 1996; M.A. (Ethics), Trinity International University, 2004. At Cedarville since 1996.

**Phillip Thornton**, *Vice Chair of Experiential Programs*; Associate Professor of Pharmacy Practice. *Education:* B.S., University of Cincinnati College of Pharmacy, 1990; Ph.D., Wake Forest University, 1999; Postdoctoral Research Fellow, Institute for Brain Aging and Dementia, University of California at Irvine, 1999–2000; Postdoctoral Fellow, Disease Pharmacotherapy Traineeship, ASCP Foundation, 2002. At Cedarville since 2012.

### Department of Pharmaceutical Sciences

**Rebecca Gryka**, *Chair*; Associate Professor of Pharmaceutical Sciences. *Education:* B.A., University of California San Diego, 1974; Pharm.D., University of Southern California, 1980; Ph.D., University of Southern California, 1984; Postdoctoral Fellow, University of California Riverside, 1985–86. At Cedarville since 2010.

**Elisha Injeti**, *Vice Chair*; Associate Professor of Pharmaceutical Sciences. *Education:* B.S., Andhra University, 1995; M.S., Andhra University, 1997; Post Baccalaureate Certificate, Biomedical and Clinical Ethics, Loma Linda University, 2002; Ph.D., Loma Linda University, 2008. At Cedarville since 2009.

**Samson Amos**, Associate Professor of Pharmaceutical Sciences. *Education:* B.Pharm., Ahmadu Bello University, Nigeria, 1989; M.Sc., University of Jos, Nigeria, 1998; Ph.D., University of Nigeria, 2002. At Cedarville 2013.



**Melissa Beck**, Associate Professor of Pharmaceutical Sciences. *Education:* B.S., Ashland University, 1995; Ph.D., University of Michigan, 2001. At Cedarville since 2013.

**Rocco Rotello**, Associate Professor of Pharmaceutical Science. *Education:* B.A., Chadron State College, 1983; M.S., University of Nebraska Medical School, 1985; Ph.D., University of Colorado Medical School, 1991; Postdoctoral Fellow, Harvard Medical School, 1991–94. At Cedarville since 2011.

**Denise Simpson**, Assistant Professor of Pharmaceutical Sciences. *Education:* B.S., University of the West Indies, 1999; Ph.D., University of the West Indies, 2005; Postdoctoral Fellow, Department of Medicinal Chemistry, University of Iowa/University of Kansas, 2006–2008; Postdoctoral Fellow, Specialized Chemistry Center, University of Kansas, 2008–2010. At Cedarville since 2012.

## School of Pharmacy

### Mission

Cedarville University is a Christ-centered learning community equipping students for lifelong leadership and service through an education marked by excellence and grounded in biblical truth. The School of Pharmacy develops exceptional pharmacy practitioners focused on meeting the physical, emotional, and spiritual needs of patients through servant leadership. The school pursues innovative, ethical solutions to health-related issues in diverse populations through collaborative teaching, research, and practice.

### Values

*Character*—Regarding character as the foundation for appropriate decisions, compassionate care, and clear perspectives, the school considers the development of godly character as paramount in the lives of its students.

*Global Focus*—The school embraces a global perspective to its impact, endeavoring to equip graduates for service locally, regionally, nationally, and internationally, maintaining a particular sensitivity to the underserved.

*Ethics*—The school advances behavior, practice, and research consistent with the truth of the Scriptures and example of Christ.

*Collaboration*—Though structured into distinct administrative and academic units, the school pursues collaborative relationships and activities within the school, among other units of the university, and with other organizations outside of the university, exemplifying to students the value and effectiveness of working together to achieve worthwhile goals.

*Innovation*—The school promotes and celebrates the discovery of creative solutions and approaches to issues and problems that challenge the delivery of effective patient care. Recognizing continuous innovation as a quality found in effective organizations today, the school actively integrates contemporary topics and practices into the curriculum.

*Leadership Development*—Regarding influence as the essence of leadership and desiring our graduates to be influential in their personal and professional lives, the school pursues opportunities to help its students develop and apply their leadership skills.

### Regional Accreditation

The University is accredited by the Higher Learning Commission. The Higher Learning Commission has approved the University to award the Doctor of Pharmacy degree.

### Pharmacy Accreditation

Cedarville University's Doctor of Pharmacy program has been granted candidate status by the Accreditation Council for Pharmacy Education, 135 South LaSalle Street, Suite 4100, Chicago, IL 60603, 312-644-3575; Fax 312-664-4652, website [acpe-accredit.org](http://acpe-accredit.org).

The Accreditation Council for Pharmacy Education (ACPE) accredits Doctor of Pharmacy programs offered by colleges and schools of pharmacy in the United States and selected non-U.S. sites. For a Doctor of Pharmacy program offered by a new college or school of pharmacy, ACPE accreditation generally involves three steps: Precandidate accreditation status, Candidate accreditation status, and Full accreditation status. Precandidate accreditation status, denotes a developmental program that is expected to mature in accord with stated plans and within a defined time period. Precandidate accreditation status is awarded to a new program of college or school of pharmacy that has not yet enrolled students in the professional program and authorizes the school to admit its first class. Candidate accreditation status is awarded to a Doctor of Pharmacy program that is currently recognized by ACPE with Precandidate status and has students enrolled but has not yet had a graduating class. Full accreditation status is awarded to a program that has met all ACPE standards for accreditation and has graduated its first class.

With respect to clarification of the meaning of Candidate accreditation status, graduates of a program so designed would, in the opinion of ACPE, have the same rights and privileges of the those graduates from a fully accredited program. The Candidate accreditation status denotes a developmental program that is expected to mature in accord with stated plans within a defined time period. It should be underscored, however, that decisions concerning eligibility for licensure by examination or reciprocity reside with the respective state boards of pharmacy in accordance with their state statutes and administrative rules. Should Candidate accreditation status be awarded to a program, ACPE would, however, make its position known and make recommendations consistent with that position.



### 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 127–128 semester hours including:

<b>Biblical Education</b> .....	<b>15</b>
BTGE-1720 Spiritual Formation .....	3
BTGE-2730 Old Testament Literature.....	3
BTGE-2740 New Testament Literature .....	3
BTGE-3755 Theology I.....	3
BTGE-3765 Theology II .....	3
<b>Communication</b> .....	<b>6</b>
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
<b>Humanities</b> .....	<b>9</b>
HUM-1400 Introduction to the Humanities.....	3
LIT-2XXX Literature Elective .....	3
Humanities Elective .....	3
<b>Physical Education</b> .....	<b>2</b>
PEF-1990 Physical Activity and the Christian Life .....	2
<b>Science and Mathematics</b> .....	<b>48–49</b>
BIO-1110 Introduction to Biology.....	4
BIO-2210 Microbiology .....	4
BIO-2250 Cell Biology .....	4
BIO-3450, 3460 Human Structure and Function I and II .....	8
CHEM-1110, 1120 General Chemistry I and II .....	8
CHEM-3510, 3520 Organic Chemistry I and II .....	8
GBIO-3350 Principles of Immunology .....	3
MATH-1710 Calculus I .....	5
PHYS-2110 General Physics I .....	4
(or PHYS-1010 College Physics I.....)	5)
<b>Social Sciences and History</b> .....	<b>9</b>
GSS-1100 Politics and American Culture.....	3
History Elective.....	3
Social Science/Global Awareness Elective.....	3
<b>Pharmaceutical Sciences</b> .....	<b>38</b>
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.....	1
PPHR-2014 Profession of Pharmacy—Careers.....	1
PPHR-3200 Pharmacy Calculations.....	2
PPHR-3300 Biostatistics in Pharmacy and Medicine .....	3
*PHAR-6111 Research Design and Methodology.....	3
*PHAR-6130 Medicinal Biochemistry .....	4
*PHAR-6131 Pharmaceutical Sciences I.....	5
*PHAR-6132 Pharmaceutical Sciences II.....	5
*PHAR-6133 Genetics and Pharmacogenomics .....	3
*PHAR-6134 Pharmacokinetics and Biopharmaceutics .....	4
*PHAR-6250 Applied Biomedical Sciences Module .....	5

\*The advanced professional pharmacy course descriptions can be found in the graduate catalog.

#### Pharmaceutical Sciences Major Curriculum Summary

Proficiency Requirements .....	0–5
General Education Requirements.....	41
Pharmaceutical Sciences Major Requirements .....	38
Cognate requirements .....	48–49
General Electives .....	0-1
<b>Total (minimum, not including proficiency)</b> .....	<b>128</b>

### Suggested Four-Year Curriculum for a Major in Pharmaceutical Sciences - B.S.

#### First year:

BTGE-1720 Spiritual Formation .....	3
BTGE-2730 Old Testament Literature.....	3
BIO-1110 Introduction to Biology.....	4
CHEM-1110, 1120 General Chemistry .....	8
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
MATH-1710 Calculus I .....	5
PEF-1990 Physical Activity and the Christian Life .....	2
PPHR-2013, 2014 Profession of Pharmacy-Careers.....	2
<b>Total</b> .....	<b>33</b>

#### Second year:

BTGE-2740 New Testament Literature .....	3
BTGE-3755 Theology I.....	3
BIO-2250 Cell Biology .....	4
CHEM-3510 Organic Chemistry I .....	4
CHEM-3520 Organic Chemistry II.....	4
GBIO-3350 Principles of Immunology .....	3
HUM-1400 Introduction to the Humanities.....	3
PPHR-1011, 1012 Profession of Pharmacy—Introduction to Public Health and History and Issues .....	2
History Elective.....	3
Social Science/Global Awareness Elective.....	3
<b>Total</b> .....	<b>32</b>

#### Third year:

BTGE-3765 Theology II .....	3
BIO-2210 Microbiology .....	4
BIO-3450, 3460 Human Structure and Function I and II .....	8
GSS-1100 Politics and American Culture.....	3
PHYS-2110 General Physics I .....	4
(or PHYS-1010 College Physics I.....)	5)
PPHR-3200 Pharmacy Calculations.....	2
PPHR-3300 Biostatistics in Pharmacy and Medicine .....	3
Humanities Elective .....	3
LIT-2XXX Literature Elective .....	3
Elective .....	0-1
<b>Total</b> .....	<b>34</b>

#### Fourth year:

PHAR-6111 Research Design and Methodology .....	3
PHAR-6130 Medicinal Biochemistry.....	4
PHAR-6131 Pharmaceutical Sciences I.....	5
PHAR-6132 Pharmaceutical Sciences II.....	5
PHAR-6133 Genetics and Pharmacogenomics .....	3
PHAR-6134 Pharmacokinetics and Biopharmaceutics .....	4
<b>Total</b> .....	<b>24</b>

#### Fifth year (fall semester):

PHAR-6250 Applied Biomedical Sciences Module.....	5
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Note: The advanced professional pharmacy curriculum is described in the Graduate Catalog and available upon request from pharmacy admissions.



# Department of Psychology

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## Mission Statement

The Cedarville University Department of Psychology seeks to:

- Develop understanding of biblical content that has psychological impact and to investigate all psychological concepts in the light of scriptural truth.
- Provide an analysis of the person from physical, emotional, rational, and spiritual levels.
- Aid students in their personal adjustment to everyday life through an understanding of human behavior.
- Prepare students for graduate study in psychology and related areas.
- Train students desiring to use counseling in vocational ministry and in biblical counseling contexts.
- Introduce students to the work world through internships, Christian ministries, guest lecturers, and advisement.
- Provide courses in psychology necessary for teacher certification.

## Personal Requirements

Some students who pursue a major in psychology are interested in providing human services to populations with special needs. Other psychology majors choose to focus on graduate school preparation, including research interests.

## Department Requirements

All psychology majors must obtain a cumulative 2.0 GPA or higher in their major for graduation.

## Programs of Study

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

- Child and Family
- Comprehensive Counseling
- Cognitive Neuroscience
- Cross-Cultural Psychology
- Health Psychology and Addictions
- Research

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

## Cocurricular Opportunities

Psychology majors have the opportunity to present their scholarly work and papers at various academic and professional venues. For example, students have presented at the Ohio Undergraduate Psychology Research Conference, Ohio Psychological Association Annual Conference, Christian Association for Psychological Studies International Conference, and Association for Psychological Science Annual Conference.

Students can join the academic organization Psi Kappa Theta (PKT), whose mission is to build unity in the psychology department and connect students to each other and their professors. They host educational and social events for students interested in psychology.

## Technical Resources

Psychology students are able to conduct researches and data analyses using, for example, the Statistical Package for the Social Sciences (SPSS), biofeedback instruments and programs, psychological assessment inventories, and to engage in real or stimulated experiments and projects to enhance learning.



## Career Opportunities

The Cedarville University Department of Psychology has a strong track record in seeing alumni placed in quality graduate psychology and counseling programs. In addition, graduates of the psychology major find ready placements in human service agencies after graduation. Careers pursued by psychology majors include:

- Author
- Behavior specialist M/R populations
- Chaplain
- Child therapist
- College counselor
- College professor
- Correctional institution counselor
- Counselor in local church
- Crisis pregnancy center director
- Dean of men/women
- Forensic psychologist
- Geriatric center counselor
- Guidance counselor
- Health psychologist in a hospital
- High school psychology teacher
- Industrial psychologist
- Marriage and family therapist
- Missions agency counselor
- Private practice
- Psychologist (clinical)
- School psychologist
- Social agency counselor
- State hospital counselor
- Substance abuse counselor

**Faculty**

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

**Milton Becknell**, Professor of Psychology. *Education*: B.A., University of North Texas, 1973; B.S.N., Texas Christian University, 1977; M.S.N., University of Texas at Austin, 1980; Ph.D., University of Southern Mississippi, 1989. Diplomate, American Board of Professional Psychology in Clinical Health Psychology (ABPP); Registered Nurse (TX); Licensed Psychologist (OH). At Cedarville since 2004.

**Amanda Burger**, Assistant Professor of Psychology. *Education*: B.A., Cedarville University, 2004; Ph.D., Wayne State University, 2010; Licensed Psychologist (OH). At Cedarville since 2008.

**Charles Dolph**, Senior Professor of Psychology. *Education*: B.A., Cedarville University, 1974; M.Ed., Georgia State University, 1982; Ph.D., Georgia State University, 1982. Licensed Psychologist (OH). At Cedarville since 1979.

**Michael Firmin**, Professor of Psychology. *Education*: B.A., Calvary Bible College, 1983; M.A., Calvary Theological Seminary, 1985; M.S. and Ph.D., Bob Jones University, 1987, 1988; M.A., Marywood University, 1992; Ph.D., Syracuse University, 2000. National Certified Counselor (NCC); Licensed Psychologist (OH). At Cedarville since 1998.

**Ruth Markham**, Assistant Professor of Psychology. *Education*: B.A., Grace College, 1979; M.A., Ball State University, 1981; Ed.S., Ball State University, 1982; Ed.D., Ball State University, 1987; Certified School Psychologist (OH). At Cedarville since 2011.

**Di Wu**, Assistant Professor of Psychology. *Education*: B.S., Beijing Normal University, 1999; M.Ed., Beijing Normal University, 2002; M.S., University of Illinois at Urbana-Champaign, 2004; M.A., University of Illinois at Urbana-Champaign, 2005; Ph.D., University of Illinois at Urbana-Champaign, 2010. At Cedarville since 2011.

**Emeriti**

**Robert Abbas**, Professor Emeritus of Psychology. *Education*: B.M., Northwestern College, 1959; B.A., Wartburg College, 1962; M.A., University of Northern Colorado, 1965; Ph.D., University of Missouri at Columbia, 1972. Licensed Psychologist (OH). At Cedarville since 1971.

**Stanley Ballard**, Professor Emeritus of Psychology. *Education*: Graduate, Moody Bible Institute, 1954; Th.B., Baptist Bible College, 1956; Th.M., Dallas Theological Seminary, 1964; M.S., North Texas State University, 1965; Ph.D., North Texas State University, 1971. At Cedarville from 1965–2001.

**Chi-en Hwang**, Professor Emerita of Psychology. *Education*: B.S., National Taiwan University, 1977; M.A., University of Iowa, 1980; Ph.D., University of Iowa, 1986. At Cedarville since 1991.

**Psychology**

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

*Course requirements involve 42 semester credits of psychology core courses and an additional 12 semester hour track:*

<b>Psychology Core Courses</b> .....	<b>42</b>
PYCH-1600 General Psychology .....	3
PYCH-2600 Human Development: Lifespan .....	3
PYCH-2610 Statistics .....	3
PYCH-2640 Abnormal Psychology .....	3
PYCH-3610 History and Systems of Psychology .....	3
PYCH-3620 Psychology and Christianity .....	3
PYCH-3650 Learning and Memory .....	3
PYCH-3660 Professional Counseling .....	3
PYCH-3690 Social Psychology .....	3
PYCH-3730 Research Methods .....	3
PYCH-3900 Physiological Psychology .....	3
PYCH-4640 Psychology Comprehensive Review .....	3
*PYCH-4990 Psychology Internship .....	3
<b>Professional Issues Block</b> .....	<b>3</b>
PYCH-1000 Orientation to Psychology .....	1
PYCH-1010 Writing in APA .....	1
PYCH-1020 Graduate School and Career Preparation .....	1

\*Capstone Course

<b>Select one of the following tracks</b> .....	<b>12</b>
<b>Comprehensive Counseling Track</b> .....	<b>12</b>
PYCH-3630 Testing and Measurement .....	3
PYCH-3670 Group Dynamics .....	3
PYCH-3680 Counseling Couples and Families .....	3
PYCH-4400 Counseling Skills .....	3
<b>Health Psychology and Addictions Track</b> .....	<b>12</b>
PYCH-3000 Addictions .....	3
PYCH-3380 Health Psychology .....	3
PYCH-3901 Medications and Behavior .....	3
PYCH-4950 Psychology Thesis .....	3
<b>Cognitive Neuroscience Track</b> .....	<b>12</b>
PYCH-3630 Testing and Measurement .....	3
PYCH-3760 Cognitive Neuroscience .....	3
PYCH-3901 Medications and Behavior .....	3
PYCH-4950 Psychology Thesis .....	3
<b>Child and Family Track</b> .....	<b>12</b>
PYCH-3130 Intimate Relationships .....	3
PYCH-3680 Counseling Couples and Families .....	3
PYCH-3701 Counseling Adolescents .....	3
PYCH-4700 Counseling Children .....	3
<b>Research Track</b> .....	<b>12</b>
PYCH-3630 Testing and Measurement .....	3
PYCH-3720 Psychology of Personality .....	3
PYCH-3740 Qualitative Research .....	3
PYCH-4950 Psychology Thesis .....	3
<b>Cross-Cultural Psychology Track</b> .....	<b>12</b>
PYCH-1800 Cross-Cultural Psychology .....	3
PYCH-3740 Qualitative Research .....	3
**Study abroad credits .....	6

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

**Psychology Major Curriculum Summary**

Proficiency Requirements .....	0–5
Other General Education Requirements .....	45–53
Psychology Major Requirements .....	54
Electives .....	21–29
<b>Total (minimum, not including proficiency)</b> .....	<b>128</b>

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

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

### *First year:*

BTGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech .....	3
ENG-1400 Composition .....	3
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to the Humanities .....	3
PEF-1990 Physical Activity and the Christian Life .....	2
PYCH-1000 Orientation to Psychology .....	1
PYCH-1010 Writing in APA .....	1
PYCH-1020 Graduate School and Career Preparation .....	1
PYCH-1600 General Psychology .....	3
Biology Elective .....	3.5
History Elective .....	3
Physical Science Elective .....	3.5
<b>Total .....</b>	<b>33</b>

### *Second year:*

BTGE-2730 Old Testament Literature .....	3
BTGE-2740 New Testament Literature .....	3
PYCH-2600 Human Development: Lifespan .....	3
PYCH-2610 Statistics .....	3
PYCH-2640 Abnormal Psychology .....	3
PYCH-3650 Learning and Memory .....	3
Humanities/Global Awareness Elective .....	3
LIT-2XXX Literature Elective .....	3
Track Requirements .....	6
<b>Total .....</b>	<b>30</b>

### *Third year:*

BTGE-3755 Theology I .....	3
BTGE-3765 Theology II .....	3
PYCH-3660 Professional Counseling .....	3
PYCH-3690 Social Psychology .....	3
PYCH-3730 Research Methods .....	3
PYCH-3900 Physiological Psychology .....	3
Track Requirements .....	6
Electives .....	8
<b>Total .....</b>	<b>32</b>

### *Fourth year:*

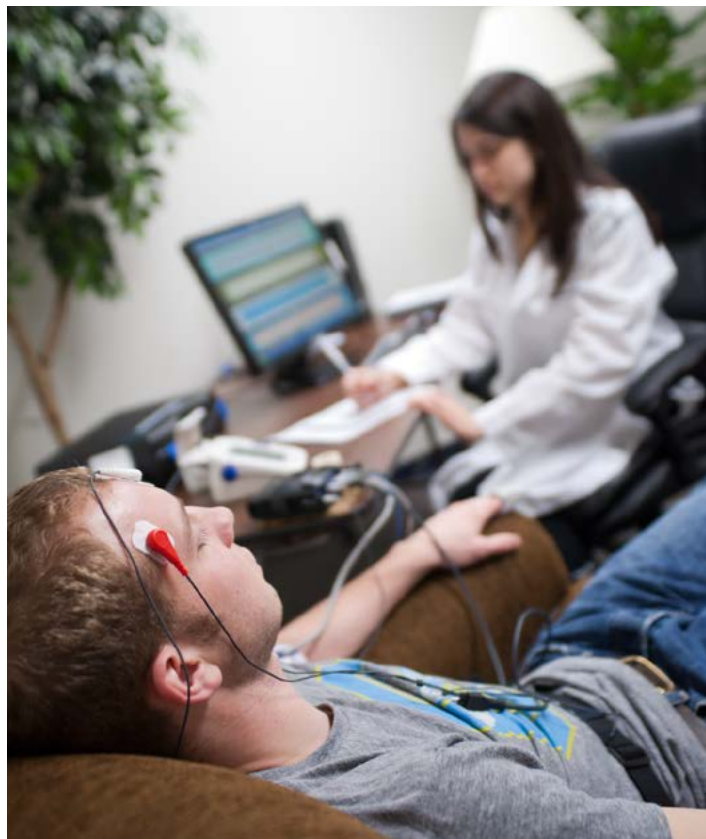
PYCH-3610 History and Systems of Psychology .....	3
PYCH-3620 Psychology and Christianity .....	3
PYCH-4640 Psychology Comprehensive Review .....	3
PYCH-4990 Psychology Internship .....	3
Electives .....	21
<b>Total .....</b>	<b>33</b>

## Minor Psychology Minor

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

Course requirements involve 18 semester hours including:

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







# Department of Science and Mathematics

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## Mission Statement

The Cedarville University Department of Science and Mathematics offers curricula in biology, chemistry, physics, mathematics, the earth-space sciences, and secondary science and mathematics education. The department seeks to present the natural sciences and mathematics as disciplines through which students can learn to understand creation and its Creator. They will learn how to exercise stewardship of this knowledge as professionals who seek to make a difference in their vocations for the glory of God and the benefit of family, church, community, and environment.

This department seeks to:

- Provide a meaningful learning experience in the sciences and mathematics as part of the liberal arts core curriculum.
- Aid students in developing clear and orderly thinking processes through the use of the techniques of science and mathematics.
- Assist students in developing a biblical perspective of the sciences, which is essential in understanding controversial issues such as origin of life, biomedical ethics, and genetic engineering.
- Prepare students for graduate study or further professional study in the medical, environmental, or agricultural sciences.
- Prepare secondary teachers with a biblical perspective of science.
- Prepare students to serve in other science-related vocations.

## Personal Requirements

Students who enjoy and excel in high school mathematics and science courses possess the greatest potential for success as graduates of this department. Therefore, to prepare for the mathematics and science curricula, students should take a college preparatory curriculum which includes:

- Four units of English
- Four units of mathematics (algebra, geometry, and trigonometry)
- Four units of science (physical science, biology, chemistry, and physics)
- Three units of social science
- Three units of a single foreign language
- Electives in computers may also be helpful.

## Programs of Study

The Department of Science and Mathematics offers the following programs of study:

### Bachelor of Arts (B.A.) in:

- Biology
- Chemistry
- Chemistry Education
- Geosciences
- Life Science Education
- Mathematics
- Mathematics Education – Integrated
- Physical Science Education
- Physics Education
- Science Comprehensive Education – Integrated

### Bachelor of Science (B.S.) in:

- |                         |                                  |
|-------------------------|----------------------------------|
| • Biology               | • Mathematics                    |
| • Chemistry             | • Molecular and Cellular Biology |
| • Environmental Science | • Physics                        |
| • Forensic Science      |                                  |
| • Geology               |                                  |

### Minors

- |                     |                 |
|---------------------|-----------------|
| • Actuarial Science | • Earth Science |
| • Biology           | • Geology       |
| • Bioethics         | • Mathematics   |
| • Chemistry         | • Physics       |

## Special Programs

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

## Cocurricular Opportunities

- Chi Theta Pi (pre-health professions organization)
- Cedarville University Emergency Medical Services Squad
- Math Club
- Omega Theta Kappa (science education)
- Chemistry Club

## Technical Resources

- |                                 |                               |
|---------------------------------|-------------------------------|
| • A.D.A.M. Interactive Anatomy  | • Matlab 7.20                 |
| • Biology and chemistry support | • MicroCalc 7.0 laboratory    |
| • Chem Sketch                   | • Molecular Modeling Software |
| • DPGraph 2001                  | • RasMol                      |
| • Laboratory simulations        | • SigmaPlot 10.0 @            |
| • LaTeX                         | • Statistical analysis tools  |
| • Maple 16                      | • Spartan Student v5.0        |

## Career Opportunities

Graduates of this department have gained admission to outstanding graduate and professional schools around the nation. Careers pursued by graduates include:

- |                              |                         |
|------------------------------|-------------------------|
| • Agricultural consultant    | • Laboratory technician |
| • Biologist                  | • Mathematician         |
| • Botanist                   | • Pharmacist            |
| • Business actuary           | • Physical therapist    |
| • Chemist                    | • Physician             |
| • Chiropractor               | • Physicist             |
| • Environmental scientist    | • Researcher            |
| • Environmental toxicologist | • Science educator      |
| • Health professional        | • Statistician          |
|                              | • Wildlife biologist    |

## Faculty

**Dennis Flentge**, *Chair*; Senior Professor of Chemistry. *Education*: B.S., Texas Lutheran College, 1969; Ph.D., Texas A&M University, 1974; Postdoctoral Research Fellow, University of Florida, 1974–75; Texas A&M University, 1976; Summer Faculty Research Fellow, Wright-Patterson Air Force Base, 1981, 1982, 1984–1988, 1990, 1996, 1997, 2001; graduate study, University of Wisconsin, summer, 1984. At Cedarville since 1980.

**Melissa Burns**, Assistant Professor of Biology; Joint Assistant Professor of Pharmacy. *Education*: B.A., Cedarville University, 1996; M.D., Indiana University School of Medicine, 2000. At Cedarville since 2009.

**Darrin Frey**, Professor of Mathematics. *Education*: B.S., University of Nebraska, 1989; Ph.D, University of Michigan, 1995. At Cedarville since 1997.

**Mark Gathany**, Associate Professor of Biology. *Education*: B.S., Grace College, 2002; M.S.E.S and Conservation Biology Certificate, Ohio University, 2004; Ph.D., Colorado State University. At Cedarville since 2007.

**Sarah Gilchrist**, Assistant Professor of Mathematics. *Education*: B.S., Cedarville University, 2000; M.S., Wright State University, 2004; Ph.D., The Ohio State University, ABD. At Cedarville 2004–2009, 2012.

**Steven Gollmer**, Professor of Physics. *Education*: B.S., Pillsbury Baptist Bible College, 1982; B.S., Northern Illinois University, 1985; M.S., University of Illinois, 1986; Ph.D., Purdue University, 1994. At Cedarville since 1994.

**Adam Hammett**, Associate Professor of Mathematics. *Education:* B.S., Westmont College, 2001; Ph.D., The Ohio State University, 2007–2008. At Cedarville University since 2015

**Nathan Hnatiuk**, Associate Professor of Chemistry. *Education:* B.S., Houghton College, 2003; Ph.D., University of Connecticut, 2010. At Cedarville University since 2008

**Ashley Holland**, Assistant Professor of Mathematics. *Education:* B.S., Cedarville University, 2005; M.S., University of Michigan, 2008; Ph.D. University of Michigan, 2012. At Cedarville since 2013.

**Geoffrey Holloway**, Associate Professor of Chemistry. *Education:* B.S., Ball State University, 1996; Ph.D., University of Illinois, 2001; Dreyfus Postdoctoral Fellow, 2001–2002, Eastern Illinois University. At Cedarville since 2012.

**Aaron Hutchison**, Associate Professor of Chemistry. *Education:* B.A., Cedarville University, 1998; Ph.D., University of Kentucky, 2007. At Cedarville University since 2003.

**William Jones**, Associate Professor of Biology. *Education:* B.A., Cedarville University, 1981; M.A., University of Akron, 1999; Ph.D., The Ohio State University. At Cedarville since 1999.

**Heather Kuruvilla**, Professor of Biology; Joint Professor of Pharmacy. *Education:* B.S., Houghton College, 1992; Ph.D., State University of New York at Buffalo, 1997. At Cedarville since 1997.

**Lindsey McCarty**, Assistant Professor of Mathematics. *Education:* B.S., Cedarville University, 2005; M.S., University of Michigan, 2008; Ph.D., University of Michigan, 2012. At Cedarville since 2014.

**Mark McClain**, *Dean of Graduate and Extended Learning Programs*; Professor of Chemistry. *Education:* B.A., Cedarville University, 1989; Ph.D., University of Michigan, 1994; Postdoctoral Fellow, Sandia National Laboratories, 1994–96; Summer Faculty Research Fellow, Air Force Research Laboratory, 1997, 1999, 2000, 2001, 2002; National Research Council Senior Research Associate, 2003–2004. At Cedarville since 1996.

**Douglas Miller**, Professor of Chemistry. *Education:* B.S., University of Rochester, 1977; Ph.D., University of Colorado, 1981; postdoctoral research, University of Iowa, 1982; City University of New York, 1982–1984; Summer Faculty Research Fellow, NASA-Lewis Research Center, 1986–1990, 1992. At Cedarville since 1984.

**Lin Pan**, Assistant Professor of Physics. *Education:* B.Sc., Qingdao University, 1991; Ph.D., Michigan Technological University, 2008. At Cedarville since 2011.

**Robert Paris**, Assistant Professor of Biology. *Education:* B.S., Berea College, 1992; M.S., University of Tennessee, 1997; Ph.D., Virginia Polytechnic Institute and State University, 2000. At Cedarville since 2011.

**Kaleb Pauley**, Assistant Professor of Biology; Joint Assistant Professor of Pharmacy. *Education:* B.S., Marshall University, 2002; M.S., Marshall University, 2004; Ph.D., University of Florida, 2008; Postdoctoral Research Fellow, University of Florida, 2008–2011. At Cedarville since 2011.

**Thomas Rice**, Assistant Professor of Geology. *Education:* B.S., West Virginia University, 1978; M.E., Colorado School of Mines, 1987. At Cedarville since 2012.

**Kevin Roper**, Associate Professor of Mathematics. *Education:* B.S., Southampton University, England, 1979; M.Ed., University of South Carolina, 1988; M.A., University of Kentucky, 1992; Ph.D., University of Kentucky, 1995. At Cedarville 1995–97 and since 2000.

**Alicia Schaffner**, Associate Professor of Biology; Joint Associate Professor of Pharmacy. *Education:* B.S., Purdue University, 1992; Ph.D., The Ohio State University, 2000. At Cedarville since 2000.

**Andrew Wagers**, Assistant Professor of Physics. *Education:* B.A., Berea College, 2002; M.S., Stephen F. Austin State University, 2005; Ph.D., Texas A&M University. At Cedarville since 2011.

**John Whitmore**, Professor of Geology. *Education:* B.S., Kent State University, 1985; M.S., Institute for Creation Research, 1991; Ph.D., Loma Linda University, 2003. At Cedarville since 1991.

**Cynthia Wingert**, Assistant Professor of Biology. *Education:* B.A., Cedarville University, 2001; M.S., Wright State University, 2005. At Cedarville 2001–2003 and since 2005.

**Otis Wright**, Professor of Mathematics. *Education:* B.Sc. (Hons.), The University of Sydney, Australia, 1987; M.A., Princeton University, 1989; Ph. D., Princeton University, 1991. Postdoctoral research, University of North Carolina at Chapel Hill, 1998–1999. At Cedarville since 2002.

#### Emeriti

**Donald Baumann**, Senior Professor Emeritus of Biology and Chemistry. *Education:* B.S., Iowa State University, 1960; M.S., Iowa State University, 1962; Ph.D., Iowa State University, 1964. At Cedarville since 1964.

**Edwin Braithwaite**, Professor Emeritus of Mathematics. *Education:* B.A., Western Washington University, 1966; M.A., Western Washington University, 1968; Ph.D., University of Illinois, 1975. At Cedarville since 1976.

**Leroy Eimers**, Professor Emeritus of Physics and Mathematics. *Education:* B.S., Hobart College, 1963; M.S., Syracuse University, 1966; Ph.D., Syracuse University, 1970. At Cedarville since 1981.

**Larry Helmick**, Senior Professor Emeritus of Chemistry. *Education:* B.S., Cedarville University, 1963; Ph.D., Ohio University, 1968; postdoctoral research, University of Florida, 1974–75 and summers of 1969, 1970, 1971; University of Illinois, summers of 1972, 1973, 1974; Summer Faculty Research Fellow, NASA-Lewis Research Center, 1980–1987 and 1990–1993, 1998; National Research Council Senior Research Fellow, 1988–1989; Wright Laboratory, Wright-Patterson Air Force Base, 1994–1997. At Cedarville since 1968.

**Robert Schumacher**, Associate Professor Emeritus of Mathematics and Computer Science. *Education:* B.S., Computer Science, United States Air Force Academy, 1970; M.S., Operations Research, Air Force Institute of Technology, 1979. At Cedarville since 1993.

**John Silvius**, Senior Professor Emeritus of Biology. *Education:* B.A., Malone College, 1969; graduate study, Western Michigan University, 1970; Ph.D., West Virginia University, 1974; postdoctoral study, University of Illinois, 1974–76. At Cedarville since 1979.

**Daniel Wetzel**, Professor Emeritus of Physics and Mathematics. *Education:* B.S., Morehead State College, 1955; M.S., University of Cincinnati, 1963; Ph.D., The Ohio State University, 1971. At Cedarville since 1963.

#### Technical Support Staff

**Eric Johnson**, Science Laboratory Technician. *Education:* B.A., Cedarville University, 1988. At Cedarville since 2003.

### Biology — Bachelor of Arts

The **Bachelor of Arts degree with a major in biology** provides general course background in the biological sciences.

Course requirements involve 52 semester hours including:

<b>Biology Core Requirements</b> .....	<b>36</b>
BIO-1110 Introduction to Biology .....	4
BIO-1120 General Zoology .....	4
BIO-2250 Cell Biology .....	4
BIO-2500 General Botany .....	4
BIO-2600 General Ecology .....	3
BIO-3300 Genetics .....	4
BIO-3710 Biochemistry .....	4
*BIO-4800 Senior Seminar–Biology .....	1
BIO-2XXX, 3XXX, 4XXX, ENV5-2XXX, or 3XXX .....	8
<b>Departmental Requirements</b> .....	<b>16</b>
CHEM-1110, 1120 General Chemistry I and II .....	8
CHEM-3510 Organic Chemistry I .....	4
GMTH-1030 Precalculus .....	4

\*Capstone Course

### Biology Major (B.A.) Curriculum Summary

Proficiency Requirements .....	0–5
Other General Education Requirements .....	41–49
Biology Major Requirements .....	52
Electives .....	27–35
<b>Total (minimum, not including proficiency)</b> .....	<b>128</b>

Students preparing for medicine, dentistry, osteopathy, or any of the **health professions** should refer to page 187 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.



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

#### First year:

BTGE-1720 Spiritual Formation .....	3
BIO-1110 Introduction to Biology .....	4
BIO-1120 General Zoology .....	4
CHEM-1110, 1120 General Chemistry I and II .....	8
ENG-1400 Composition .....	3
GMTH-1030 Precalculus .....	4
PEF-1990 Physical Activity and the Christian Life .....	2
History Elective .....	3
<b>Total</b> .....	<b>31</b>

#### Second year:

BTGE-2730 Old Testament Literature .....	3
BTGE-2740 New Testament Literature .....	3
BIO-2250 Cell Biology .....	4
BIO-2500 General Botany .....	4
BIO-2600 General Ecology .....	3
CHEM-3510 Organic Chemistry I .....	4
COM-1100 Fundamentals of Speech .....	3
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to the Humanities .....	3
LIT-2XXX Literature Elective .....	3
<b>Total</b> .....	<b>33</b>

#### Third year:

BTGE-3755 Theology I .....	3
BTGE-3765 Theology II .....	3
BIO-3300 Genetics .....	4
BIO-3710 Biochemistry .....	4
Biology Electives .....	8
Humanities Elective .....	3
Electives .....	8
<b>Total</b> .....	<b>33</b>

#### Fourth year:

BIO-4800 Senior Seminar — Biology .....	1
Social Science/Global Awareness Elective .....	3
Electives .....	27
<b>Total</b> .....	<b>31</b>

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

## 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 77 hours including:

<b>Biology Requirements</b> .....	<b>46</b>
BIO-1110 Introduction to Biology.....	4
BIO-1120 General Zoology.....	4
BIO-2250 Cell Biology.....	4
BIO-2500 General Botany.....	4
BIO-2600 General Ecology.....	3
BIO-3300 Genetics.....	4
BIO-3710 Biochemistry.....	4
BIO-3800 Biological Research.....	2
(Or BIO-3810 Biology Research Internship..... 2)	
*BIO-4800 Senior Seminar — Biology.....	1
BIO-2XXX, 3XXX, 4XXX, ENVS-2XXX, or 3XXX.....	16
<b>Departmental Requirements</b> .....	<b>31</b>
CHEM-1110, 1120 General Chemistry I and II.....	8
CHEM-3510, 3520 Organic Chemistry I and II.....	8
MATH-1710 Calculus I.....	5
PHYS-1010, 1020 College Physics I and II.....	10

\*Capstone Course

### Biology Major (B.S.) Curriculum Summary

Proficiency Requirements.....	0–5
Other General Education Requirements.....	41
Biology Major Requirements.....	77
Electives.....	10
<b>Total (minimum, not including proficiency).....</b>	<b>128</b>

Students preparing for medicine, dentistry, osteopathy, or any of the **health professions** should refer to page 187 for a list of courses generally recommended for admission to professional colleges.



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

#### First year:

BTGE-1720 Spiritual Formation.....	3
BIO-1110 Introduction to Biology.....	4
BIO-1120 General Zoology.....	4
CHEM-1110, 1120 General Chemistry I and II.....	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 the Christian Life.....	2
<b>Total.....</b>	<b>33</b>

#### Second year:

BIO-2250 Cell Biology.....	4
BIO-2500 General Botany.....	4
BIO-2600 General Ecology.....	3
CHEM-3510, 3520 Organic Chemistry I and II.....	8
MATH-1710 Calculus I.....	5
History Elective.....	3
Electives.....	3
<b>Total.....</b>	<b>30</b>

#### Third year:

BTGE-2730 Old Testament Literature.....	3
BTGE-2740 New Testament Literature.....	3
BIO-3300 Genetics.....	4
BIO-3710 Biochemistry.....	4
BIO-3800 Biological Research.....	2
(or BIO-3810 Biology Research Internship.....)	2
PHYS-1010, 1020 College Physics I and II.....	10
Biology/ENVS Electives.....	4
Social Science/Global Awareness Elective.....	3
<b>Total.....</b>	<b>33</b>

#### Fourth year:

BTGE-3755 Theology I.....	3
BTGE-3765 Theology II.....	3
BIO-4800 Senior Seminar — Biology.....	1
Biology/ENVS Electives.....	12
Humanities Elective.....	3
LIT-2XXX Literature Elective.....	3
Electives.....	7
<b>Total.....</b>	<b>32</b>



## Chemistry — Bachelor of Arts

The **Bachelor of Arts degree with a major in chemistry** prepares students for careers in the health professions, technical business professions, and other science-related vocations.

Course requirements involve 34 semester hours including:

<b>Chemistry Requirements</b> .....	<b>27</b>
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-3800 Research Methods in Chemistry .....	1
CHEM-4310 Thermodynamics and Kinetics .....	4
(or CHEM-4320 Quantum Mechanics and Spectroscopy 4)	
*CHEM-4800 Senior Seminar — Chemistry .....	1
CHEM 4830 Chemistry Research .....	1
<b>CHEM-2XXX, 3XXX, or 4XXX</b> .....	<b>7</b>
<b>Required Cognates</b> .....	<b>18</b>
MATH-1710, 1720 Calculus I and II .....	10
PHYS-2110, 2120 General Physics I and II .....	8

\*Capstone Course

### Chemistry Major (B.A.) Curriculum Summary

Proficiency Requirements .....	0–5
Other General Education Requirements .....	44–52
Chemistry Major Requirements .....	34
Cognates .....	18
Electives .....	24–32
<b>Total (minimum, not including proficiency)</b> .....	<b>128</b>

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

Students preparing for medicine, dentistry, osteopathy, or any of the health professions should refer to page 187 for a list of courses generally recommended for admission to professional colleges.



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

#### First year:

BTGE-1720 Spiritual Formation .....	3
CHEM-1110, 1120 General Chemistry I and II .....	8
COM-1100 Fundamentals of Speech .....	3
ENG-1400 Composition .....	3
MATH-1710, 1720 Calculus I and II .....	10
PEF-1990 Physical Activity and the Christian Life .....	2
LIT-2XXX Literature Elective .....	3
<b>Total</b> .....	<b>32</b>

#### 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
<b>Total</b> .....	<b>30</b>

#### Third year:

BTGE-3755 Theology I .....	3
BTGE-3765 Theology II .....	3
CHEM-3510, 3520 Organic Chemistry I and II .....	8
CHEM-3800 Research Methods in Chemistry .....	1
CHEM-2XXX, 3XXX, or 4XXX .....	7
Biology Elective .....	3.5
Humanities Elective .....	3
Social Science/Global Awareness Elective .....	3
<b>Total</b> .....	<b>31.5</b>

#### Fourth year:

CHEM-4310 Thermodynamics and Kinetics .....	4
(or CHEM-4320 Quantum Mechanics and Spectroscopy .....	4)
CHEM-4800 Senior Seminar — Chemistry .....	1
CHEM-4830 Chemistry Research .....	1
History Elective .....	3
Electives .....	26
<b>Total</b> .....	<b>35</b>



## Chemistry — Bachelor of Science

The **Bachelor of Science degree with a major in chemistry** prepares students for graduate study in chemistry and for careers in industry or research. The degree requirements provide training in each of the primary areas of chemistry with the necessary support in mathematics, physics, and biology.

Course requirements involve 48 semester hours including:

<b>Chemistry Requirements</b> .....	<b>38</b>
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-3800 Research Methods in Chemistry.....	1
CHEM-4310 Thermodynamics and Kinetics.....	4
CHEM-4320 Quantum Mechanics and Spectroscopy .....	4
*CHEM-4800 Senior Seminar — Chemistry.....	1
CHEM-4830 Research in Chemistry .....	2
<b>CHEM 2XXX, 3XXX, or 4XXX</b> .....	<b>10</b>

<b>Required Cognates</b> .....	<b>18</b>
MATH-1710, 1720 Calculus I and II .....	10
PHYS-2110, 2120 General Physics I and II.....	8

\*Capstone Course

### Chemistry Major (B.S.) Curriculum Summary

Proficiency Requirements .....	0–5
Other General Education Requirements.....	44
Chemistry Major Requirements .....	48
Cognates .....	18
Electives .....	18
<b>Total (minimum, not including proficiencies)</b> .....	<b>128</b>

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

#### First year:

BTGE-1720 Spiritual Formation .....	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 the Christian Life .....	2
History Elective.....	3
<b>Total</b> .....	<b>32</b>

#### 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
<b>Total</b> .....	<b>32.5</b>

#### Third year:

BTGE-3755 Theology I.....	3
BTGE-3765 Theology II .....	3
CHEM-3800 Research Methods in Chemistry.....	1
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
<b>Total</b> .....	<b>31</b>

#### Fourth year:

CHEM-3410 Inorganic Chemistry .....	3
CHEM-4800 Senior Seminar — Chemistry .....	1
CHEM-4830 Research in Chemistry .....	2
CHEM-2XXX, 3XXX, or 4XXX .....	10
Humanities Elective .....	3
Electives .....	14
<b>Total</b> .....	<b>33</b>



## 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 semester hours including:

<b>Environmental Science Requirements</b> .....	<b>63</b>
BIO-1110 Introduction to Biology .....	4
BIO-1120 General Zoology .....	4
BIO-2500 General Botany .....	4
BIO-2600 General Ecology.....	3
BIO-3800 Biological Research.....	2
(or BIO-3810 Biological Research Internship .....	2)
*BIO-4800 Biology Senior Seminar .....	1
ENVS-1010 Introduction to Environmental Science .....	1
ENVS-2100 Principles of Geographic Information Systems .....	3
ENVS-3200 Ecosystem Science .....	3
ENVS-3600 Environmental Ethics.....	3
CHEM-1110, 1120 General Chemistry I and II .....	8
CHEM-3510 Organic Chemistry I .....	4
MATH-1710 Calculus I .....	5
GMTH-2110 Introduction to Biostatistics.....	3
POLS-3690 Public Policy.....	3
Emphasis requirements .....	12

Each student must complete 12 hours in an emphasis area that is an extension of the major. Examples of such tracks include public policy, geosciences, and molecular ecology. At least eight of these credits must come from 3000- or 4000-level courses.

The courses in the emphasis will be selected by the student and his or her advisor and must be approved by the department Chair. This set of courses will be sent to the Registrar and will become part of the student's academic file.

### Environmental science electives (meeting the following criteria for each set) .....

<b>Set A</b> .....	<b>7</b>
BIO-2210 Microbiology.....	4
BIO-3300 Genetics .....	4
BIO-3410 Invertebrate Zoology .....	3
BIO-3420 Vertebrate Zoology .....	3
BIO-3520 Plant Taxonomy .....	3
**BIO-3610 Environmental Physiology and Ecology .....	4
BIO-3710 Biochemistry .....	4
BIOA-3220 Aquatic Biology.....	4
<b>Set B</b> .....	<b>8</b>
**BIO-3610 Environmental Physiology and Ecology .....	4
BIO-4910 Environmental Biology Internship .....	2
BIOA-4710 Conservation Biology.....	4
BIOA-4820 Restoration Ecology .....	4
BIOA-XXXX Au Sable course (Advisor Approval).....	4
CHEM-2210 Analytical Chemistry I.....	3
CHEM-3210 Environmental Chemistry .....	4

\* Capstone Course

\*\*This course may not be counted twice in the environmental science elective hours.

### Environmental Science Major (B.S.) Curriculum Summary

Proficiency Requirements .....	0–5
General Education Requirements.....	38–41
Environmental Science Major Requirements.....	78
General Electives .....	9–12
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

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

#### First year:

BTGE-1720 Spiritual Formation .....	3
BIO-1110 Introduction to Biology.....	4
BIO-1120 General Zoology .....	4
CHEM-1110, 1120 General Chemistry I and II .....	8
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
ENVS-1010 Introduction to Environmental Science .....	1
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life .....	2
<b>Total .....</b>	<b>31</b>

#### Second year:

BTGE-2730 Old Testament Literature.....	3
BTGE-2740 New Testament Literature .....	3
BIO-2500 General Botany .....	4
BIO-2600 General Ecology.....	3
CHEM-3510 Organic Chemistry I .....	4
GMTH-2110 Introduction to Biostatistics.....	3
GSS-1100 Politics and American Culture.....	3
MATH-1710 Calculus I .....	5
Humanities Elective .....	3
<b>Total .....</b>	<b>31</b>

#### Third year:

BTGE-3755 Theology I.....	3
BIO-3800 Biological Research or BIO-3810 Internship .....	2
ENVS-2100 Introduction to Geographic Information Systems .....	3
ENVS-3200 Ecosystem Science .....	3
ENVS-3600 Environmental Ethics.....	3
POLS-3690 Public Policy.....	3
Emphasis requirements .....	6
Environmental Science Electives.....	7
LIT-2XXX Literature Elective .....	3
<b>Total .....</b>	<b>33</b>

#### Fourth year:

BTGE-3765 Theology II .....	3
BIO-4800 Biology Senior Seminar.....	1
History/Global Awareness Elective .....	3
Emphasis requirements .....	6
Environmental Science Electives.....	8
Electives .....	12
<b>Total .....</b>	<b>33</b>





### Forensic Science

The **Bachelor of Science degree with a major in forensic science** is an interdisciplinary degree that includes substantial laboratory work and an emphasis on advanced course work in the sciences. It will involve a collaborative endeavor between Cedarville University and the Ohio Bureau of Criminal Identification and Investigation consisting of a forensic laboratory experience on an internship basis with the bureau.

Course requirements involve 90 semester hours including:

<b>Science and Math Requirements</b> .....	<b>64</b>
BIO-1110 Introduction to Biology .....	4
BIO-1120 General Zoology .....	4
BIO-2250 Cell Biology .....	4
BIO-3710 Biochemistry .....	4
CHEM-1110, 1120 General Chemistry I and II .....	8
CHEM-2210, 2220 Analytical Chemistry I and II .....	6
CHEM-3510, 3520 Organic Chemistry I and II .....	8
FORS-3400 Forensic Science .....	4
*FORS-4800 Forensic Science Capstone .....	1
GSS-3650 Quantitative Methodology .....	3
MATH-1710, 1720 Calculus I and II .....	10
PHYS-2110, 2120 General Physics I and II .....	8
<b>Criminal Justice Requirements</b> .....	<b>18</b>
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
GSS-4990 Internship .....	3
<b>Science electives selected from</b> .....	<b>8</b>
BIO-3300 Genetics .....	4
BIO-4300 Molecular Biology .....	4
CHEM-4310 Thermodynamics and Kinetics .....	4
CHEM-4320 Quantum Mechanics and Spectroscopy .....	4

\*Capstone Course

### Forensic Science Major (B.S.) Curriculum Summary

Proficiency Requirements .....	0–5
General Education Requirements .....	38
Forensic Science Major Requirements .....	90
<b>Total (minimum, not including proficiency)</b> .....	<b>128</b>

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

#### First year:

BTGE-1720 Spiritual Formation .....	3
BIO-1110 Introduction to Biology .....	4
BIO-1120 General Zoology .....	4
BIO-2250 Cell Biology .....	4
CHEM-1110, 1120 General Chemistry I and II .....	8
CRJU-1310 Introduction to Criminal Justice .....	3
ENG-1400 Composition .....	3
PEF-1990 Physical Activity and the Christian Life .....	2
<b>Total</b> .....	<b>31</b>

#### 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
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to the Humanities .....	3
MATH-1710, 1720 Calculus I and II .....	10
LIT-2XXX Literature Elective .....	3
<b>Total</b> .....	<b>34</b>

#### Third year:

BTGE-3755 Theology I .....	3
BTGE-3765 Theology II .....	3
BIO-3710 Biochemistry .....	4
CHEM-3510, 3520 Organic Chemistry I and II .....	8
CRJU-3350 Criminal Law .....	3
CRJU-4320 Criminal Investigation .....	3
FORS-3400 Forensic Science .....	4
GSS-3650 Quantitative Methodology .....	3
Humanities Elective .....	3
<b>Total</b> .....	<b>34</b>

#### Fourth year:

CRJU-3390 Criminal Evidence .....	3
CRJU-3400 Criminal Procedure .....	3
FORS-4800 Forensic Science Capstone .....	1
GSS-4990 Internship .....	3
PHYS-2110, 2120 General Physics I and II .....	8
History Elective .....	3
Science Electives .....	8
<b>Total</b> .....	<b>29</b>



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

### Geology — Bachelor of Science

The **Bachelor of Science degree with a major in geology** prepares students for graduate studies or employment in a wide variety of geological fields. Skills needed by modern geologists, such as observation, interpretation, model analysis, critical thinking, and field work, are emphasized throughout the program. Opportunities for undergraduate research and publication are also available and encouraged.

Course requirements involve 85 hours including:

<b>Geology Requirements</b> .....	<b>51</b>
GEOL-1110 Introduction to Physical Geology .....	4
GEOL-1120 Historical Geology .....	4
GEOL-2100 Mineralogy .....	4
GEOL-3100 Geomorphology .....	4
GEOL-3200 Invertebrate Paleontology .....	4
GEOL-3300 Petrology.....	4
GEOL-3400 Structural Geology.....	4
GEOL-3800 Philosophy of Science/Research Methods in Geology.....	3
GEOL-4100 Environmental Geology.....	4
GEOL-4200 Stratigraphy and Sedimentology.....	5
GEOL-4400 Summer Field Camp.....	6
*GEOL-4800 Senior Project.....	2
Geology electives .....	3
<b>Departmental Requirements</b> .....	<b>34</b>
BIO-1110 Introduction to Biology.....	4
CHEM-1110, 1120 General Chemistry I and II .....	8
MATH-1710, 1720 Calculus I and II .....	10
PHYS-2110, 2120 General Physics I, II.....	8
<b>Earth science electives selected from</b> .....	<b>4</b>
ESCI-2310 Oceanography .....	4
ESCI-2410 Meteorology.....	4
ESCI-2510 Astronomy.....	4

\*Capstone Course

### Geology Major (B.S.) Curriculum Summary

Proficiency Requirements .....	0–5
Other General Education Requirements.....	41
Geology Major Requirements.....	85
Electives .....	2
<b>Total (minimum, not including proficiency)</b> .....	<b>128</b>



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

#### First year:

BTGE-1720 Spiritual Formation .....	3
CHEM-1110, 1120 General Chemistry I and II .....	8
ENG-1400 Composition.....	3
GEOL-1110 Introduction to Physical Geology .....	4
GEOL-1120 Historical Geology.....	4
MATH-1710, 1720 Calculus I and II .....	10
<b>Total</b> .....	<b>32</b>

#### Second year:

BIO-1110 Introduction to Biology.....	4
COM-1100 Fundamentals of Speech.....	3
GEOL-2100 Mineralogy .....	4
GEOL-3300 Petrology.....	4
GSS-1100 Politics and American Culture.....	3
PEF-1990 Physical Activity and the Christian Life .....	2
PHYS-2110, 2120 General Physics I and II.....	8
<b>Total</b> .....	<b>28</b>

#### Third year:

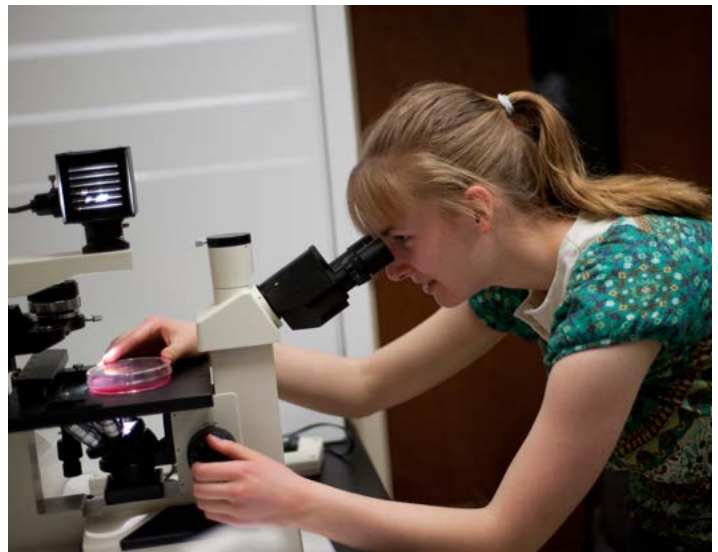
BTGE-2730 Old Testament Literature.....	3
BTGE-2740 New Testament Literature .....	3
GEOL-3100 Geomorphology .....	4
GEOL-3200 Invertebrate Paleontology .....	4
GEOL-3400 Structural Geology.....	4
GEOL-3800 Philosophy of Science/Research Methods in Geology .....	3
GEOL-4200 Stratigraphy and Sedimentology.....	5
LIT-2XXX Literature Elective .....	3
<b>Total</b> .....	<b>29</b>

#### Summer

GEOL-4400 Summer Field Camp.....	6
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#### Fourth year:

BTGE-3755 Theology I.....	3
BTGE-3765 Theology II.....	3
GEOL-4100 Environmental Geology.....	4
GEOL-4800 Senior Project .....	2
HUM-1400 Introduction to the Humanities.....	3
Earth Science Elective .....	4
Geology Elective.....	3
History Elective.....	3
Humanities Elective .....	3
Social Science/Global Awareness Elective.....	3
Electives .....	2
<b>Total</b> .....	<b>33</b>



**Geosciences — Bachelor of Arts**

The **Bachelor of Arts degree with a major in geosciences** prepares students for employment in the areas of geology and environmental science. The major is a hybrid of the geology and environmental science majors.

Course requirements involve 87 hours including:

<b>Geosciences Requirements.....</b>	<b>87</b>
BIO-1110 Introduction to Biology.....	4
BIO-1120 General Zoology .....	4
BIO-2500 General Botany .....	4
BIO-2600 General Ecology .....	3
CHEM-1110,1120 General Chemistry I, II .....	8
CHEM-2210 Analytical Chemistry I.....	3
ENVS-1010 Introduction to Environmental Science .....	1
ENVS-2100 Principles of Geographic Information Systems .....	3
ENVS-3200 Ecosystem Science .....	3
ENVS-3600 Environmental Ethics.....	3
ESCI-2410 Meteorology .....	4
GEOL-1110 Introduction to Physical Geology .....	4
GEOL-1120 Historical Geology.....	4
GEOL-2100 Mineralogy .....	4
GEOL-3100 Geomorphology .....	4
GEOL-3300 Petrology.....	4
GEOL-3600 Readings in Geology (1 credit hour, taken twice) ..	2
GEOL-3800 Philosophy of Science/Research Methods in Geology.....	3
GEOL-4100 Environmental Geology.....	4
*GEOL-4800 Senior Project.....	2
GMTH-1030 Precalculus.....	4
GMTH-2110 Biostatistics .....	3
MGMT-3500 Principles of Organization and Management .....	3
POLS-3690 Public Policy.....	3
BIO, ENVS, or GEOL-3000 or 4000 Electives .....	3

\*Capstone Course

**Geosciences Major (B.A.) Curriculum Summary**

Proficiency Requirements.....	0–5
Other General Education Requirements.....	41–49
Geosciences Major Requirements.....	87
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>



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

*First year:*

BTGE-1720 Spiritual Formation .....	3
BIO-1110 Introduction to Biology.....	4
BIO-1120 General Zoology .....	4
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
ENVS-1010 Introduction to Environmental Science.....	1
GEOL-1110 Introduction to Physical Geology .....	4
GEOL-1120 Historical Geology.....	4
PEF-1990 Physical Activity and the Christian Life .....	2
History Elective.....	3
<b>Total .....</b>	<b>31</b>

*Second year:*

BIO-2500 General Botany .....	4
BIO-2600 General Ecology.....	3
CHEM-1110, 1120 General Chemistry I, II .....	8
GEOL-2100 Mineralogy .....	4
GEOL-3300 Petrology.....	4
GMTH-1030 Precalculus.....	4
GMTH-2110 Biostatistics .....	3
<b>Total .....</b>	<b>30</b>

*Third year:*

BTGE-2730 Old Testament Literature.....	3
BTGE-2740 New Testament Literature .....	3
CHEM-2210 Analytical Chemistry I .....	3
ENVS-2100 Principles of Geographic Information Systems .....	3
ENVS-3600 Environmental Ethics.....	3
GEOL-3100 Geomorphology .....	4
GEOL-3600 Readings in Geology (1 credit hour, taken twice).....	1
GEOL-3800 Philosophy of Science/Research Methods in Geology ..	3
MGMT-3500 Principles of Organizational Management .....	3
POLS-3690 Public Policy.....	3
Humanities Elective .....	3
<b>Total .....</b>	<b>32</b>

*Fourth year:*

BTGE-3755 Theology I.....	3
BTGE-3765 Theology II.....	3
ENVS-3200 Ecosystem Science .....	3
ESCI-2410 Meteorology .....	4
GEOL-3600 Readings in Geology (1 credit hour, taken twice).....	1
GEOL-4100 Environmental Geology.....	4
GEOL-4800 Senior Project .....	2
GSS-1100 Politics and American Culture.....	3
HUM-1400 Introduction to the Humanities.....	3
LIT-2XXX Literature Elective .....	3
GEOL, ENVS, or BIO 3000 or 4000 Elective.....	3
Global Awareness Elective .....	3
<b>Total .....</b>	<b>35</b>



## Molecular and Cellular Biology

The **Bachelor of Science degree with a major in molecular and cellular biology** prepares students for graduate-level training in the context of a broad biological background based in a biblical worldview. This degree allows students to become holistically thinking molecular biologists and will enhance the student's depth of knowledge in this competitive and growing field.

Course requirements involve 78 hours including:

<b>Biology Requirements</b> .....	<b>62</b>
BIO-1110 Introduction to Biology.....	4
<sup>1</sup> BIO-1120 General Zoology.....	4
(or BIO-2500 General Botany.....)	4
BIO-2250 Cell Biology.....	4
BIO-3300 Genetics.....	4
BIO-3710 Biochemistry.....	4
BIO-3800 Biological Research.....	2
(or BIO-3810 Biology Research Internship.....)	2
BIO-4210 Advanced Cell Biology.....	4
BIO-4300 Molecular Biology of the Cell.....	4
*BIO-4800 Senior Seminar — Biology.....	1
CHEM-1110, 1120 General Chemistry I and II.....	8
CHEM-3510, 3520 Organic Chemistry I and II.....	8
MATH-1710 Calculus I.....	5
PHYS-1010, 1020 College Physics I and II.....	10
<b>Biology electives selected from the following</b> .....	<b>16</b>
<b>Selected from</b> .....	<b>7</b>
BIO-2210 Microbiology.....	4
BIO-4220 Signal Transduction.....	3
BIO-4310 Eukaryotic Gene Regulation.....	3
BIO-4350 Immunology.....	4
<b>Any 3000- or 4000-level biology electives</b> .....	<b>9</b>
<b>Suggested Emphasis Areas</b>	
<b>Molecular Biology in Plant Systems:</b>	
<b>Biology electives selected from:</b>	
BIO-2500 General Botany.....	4
BIO-3510 Plant Physiology.....	3
BIO-3520 Plant Taxonomy.....	3
BIOA-3600 Molecular Field Biology.....	4
<b>Molecular Biology in Animal Systems:</b>	
<b>Biology electives selected from:</b>	
BIO-1120 General Zoology.....	4
BIO-3410 Invertebrate Zoology.....	3
BIO-3420 Vertebrate Zoology.....	3
BIO-4410 Developmental Biology.....	4
<b>Molecular Biology in Human Systems:</b>	
<b>Biology electives selected from:</b>	
BIO-1120 General Zoology.....	4
BIO-3450, 3460 Human Structure and Function I and II.....	4
BIO-4410 Developmental Biology.....	4
<b>Molecular Biology in Prokaryotic Systems:</b>	
<b>Biology electives selected from:</b>	
BIO-2210 Microbiology.....	4
BIO-2600 General Ecology.....	3

<sup>1</sup>Students selecting BIO-1120 General Zoology will take this course in the freshman year. Students selecting BIO-2500 General Botany will take this course in the sophomore year.

\*Capstone Course

### Molecular and Cellular Biology Major (B.S.) Curriculum Summary

Proficiency Requirements.....	0–5
General Education Requirements.....	41
Molecular and Cellular Biology Major Requirements.....	78
Electives.....	9
<b>Total (minimum, not including proficiency)</b> .....	<b>128</b>

### Suggested Four-Year Curriculum for a Major in Molecular and Cellular Biology — B.S.

#### First year:

BTGE-1720 Spiritual Formation.....	3
BIO-1110 Introduction to Biology.....	4
BIO-1120 General Zoology.....	4
(or BIO-2500 General Botany.....)	4
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
PEF-1990 Physical Activity and the Christian Life.....	2
<b>Totals</b> .....	<b>30</b>

#### Second year:

BIO-2250 Cell Biology.....	4
CHEM-3510, 3520 Organic Chemistry I and II.....	8
MATH-1710 Calculus I.....	5
GSS-1100 Politics and American Culture.....	3
History Elective.....	3
Humanities Elective.....	3
LIT-2XXX Literature Elective.....	3
Electives.....	3
<b>Total</b> .....	<b>32</b>

#### Third year:

BTGE-2730 Old Testament Literature.....	3
BTGE-2740 New Testament Literature.....	3
BIO-3300 Genetics.....	4
BIO-3710 Biochemistry.....	4
BIO-3800 Biological Research.....	2
(or BIO-3810 Biology Research Internship.....)	2
BIO-4210 Advanced Cell Biology.....	4
PHYS-1010, 1020 College Physics I and II.....	10
Electives.....	4
<b>Total</b> .....	<b>34</b>

#### Fourth year:

BTGE-3755 Theology I.....	3
BTGE-3765 Theology II.....	3
BIO-4300 Molecular Biology of the Cell.....	4
BIO-4800 Senior Seminar — Biology.....	1
Biology Electives.....	16
Social Science/Global Awareness Elective.....	3
Electives.....	2
<b>Total</b> .....	<b>32</b>



**Mathematics — Bachelor of Arts**

The **Bachelor of Arts degree with a major in mathematics** provides course work and training in advanced mathematics. Because of the general nature of this curriculum and opportunity to complement the major with electives from other fields of study, this curriculum provides excellent preparation for graduate study in areas that require good quantitative and/or analytical skills such as philosophy, business, and theology. This liberal arts major also prepares students for a wide variety of career opportunities that require a general Bachelor of Arts degree. The flexibility of this major enables students to select their mathematics and other electives to meet educational or career goals.

Students should include courses in astronomy, chemistry, and physics as general electives.

Course requirements involve 54 semester hours including:

<b>Mathematics Core Requirements</b> .....	<b>42</b>
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
<b>Electives (meeting the following criteria)</b> .....	<b>12</b>
<b>Applied courses (at least three hours from the following applied courses)</b> .....	<b>3</b>
MATH-3110, 4110 Probability and Statistics I and II .....	6
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-4210 Mathematical Methods for Physicists .....	3
MATH-4880 Topics in Mathematics.....	1-3
MATH-4900 Independent Study in Mathematics.....	1-3
<b>Theoretical courses (at least three hours from the following)</b> .....	<b>3</b>
MATH-3500 Number Theory .....	3
MATH-3550 Discrete Mathematics: Graph Theory.....	3
MATH-3560 Discrete Mathematics: Combinatorics.....	3
MATH-3710 Advanced Calculus.....	3
MATH-3740 Complex Variables.....	3
MATH-4410 Euclidean and Non-Euclidean Geometry.....	3
MATH-4450 Topology.....	3
MATH-4610, 4620 Abstract Algebra I 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

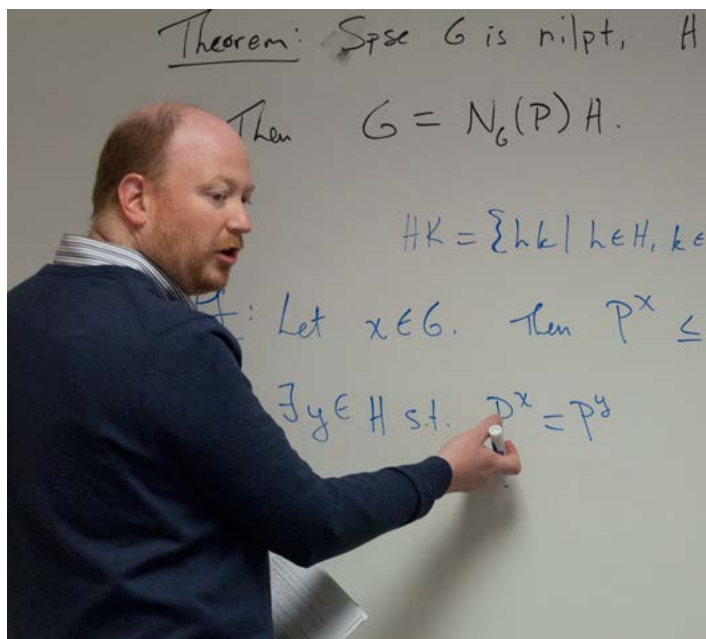
\*Capstone Course

**Mathematics Major (B.A.) Curriculum Summary**

Proficiency Requirements.....	0-5
Other General Education Requirements.....	44.5-52.5
Mathematics Major Requirements.....	54
Electives .....	21.5-29.5
<b>Total (minimum, not including proficiency)</b> .....	<b>128</b>

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

<i>First year:</i>	
BTGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech.....	3
CS-1210 C++ Programming.....	2
ENG-1400 Composition.....	3
HUM-1400 Introduction to the Humanities.....	3
MATH-1710, 1720 Calculus I and II .....	10
MATH-1990 Beautiful Math Structures and Thinking .....	3
MATH-2800 LaTeX for Technical Documents .....	1
PEF-1990 Physical Activity and the Christian Life .....	2
<b>Total</b> .....	<b>30</b>
<i>Second year:</i>	
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
<b>Total</b> .....	<b>33</b>
<i>Third year:</i>	
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
<b>Total</b> .....	<b>33.5</b>
<i>Fourth year:</i>	
MATH-4800 Capstone Experience in Mathematics .....	3
History Elective.....	3
Mathematics Electives.....	6
Electives .....	20
<b>Total</b> .....	<b>32</b>



**Mathematics — Bachelor of Science**

The **Bachelor of Science degree with a major in mathematics** prepares students for graduate study in mathematics. The curriculum includes the course requirements prescribed by many of the leading graduate-level mathematics programs in the nation.

*Students should include courses in astronomy, chemistry, and physics as general electives. Course requirements involve 69 hours:*

<b>Mathematics Core Requirements</b> .....	<b>48</b>
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
<b>Electives (meeting the following criteria)</b> .....	<b>21</b>
<b>Applied courses (at least six hours from the following applied courses)</b> .....	<b>6–15</b>
MATH-3110, 4110 Probability and Statistics I and II .....	6
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-4210 Mathematical Methods for Physicists .....	3
MATH-4880 Topics in Mathematics.....	1–3
MATH-4900 Independent Study in Mathematics.....	1–3
<b>Theoretical courses (at least six hours from the following theoretical courses)</b> .....	<b>6–15</b>
MATH-3500 Number Theory .....	3
MATH-3550 Discrete Mathematics: Graph Theory.....	3
MATH-3560 Discrete Mathematics: Combinatorics.....	3
MATH-3710 Advanced Calculus.....	3
MATH-3740 Complex Variables.....	3
MATH-4410 Euclidean and Non-Euclidean Geometry.....	3
MATH-4450 Topology.....	3
MATH-4620 Abstract Algebra II.....	3
MATH-4720 Real Variables II .....	3
MATH-4880 Topics in Mathematics.....	1–3
MATH-4900 Independent Study in Mathematics.....	1–3

\*Capstone Course

**Mathematics Major (B.S.) Curriculum Summary**

Proficiency Requirements .....	0–5
General Education Requirements.....	44.5
Mathematics Major Requirements.....	69
Electives .....	14.5
<b>Total (minimum, not including proficiency)</b> .....	<b>128</b>

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

*First year:*

BTGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech.....	3
CS-1210 C++ Programming.....	2
ENG-1400 Composition.....	3
HUM-1400 Introduction to the Humanities.....	3
MATH-1710, 1720 Calculus I and II .....	10
MATH-1990 Beautiful Math Structures and Thinking.....	3
MATH-2800 LaTeX for Technical Documents .....	1
PEF-1990 Physical Activity and the Christian Life .....	2
<b>Total</b> .....	<b>30</b>

*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
<b>Total</b> .....	<b>30</b>

*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
<b>Total</b> .....	<b>34</b>

*Fourth year:*

MATH-4800 Capstone Experience in Mathematics .....	3
History Elective.....	3
Mathematics Electives.....	15
Social Science/Global Awareness Elective.....	3
Electives .....	10
<b>Total</b> .....	<b>34</b>



### Physics — Bachelor of Science

The **physics major** prepares students for graduate study in physics or for employment opportunities in industry. The curriculum includes courses prescribed by leading graduate-level physics programs in the nation.

Students should include courses in mathematics and chemistry as general electives. Students must demonstrate proficiency in the general physics sequence to advance into 3000- and 4000-level courses.

Course requirements involve 68.5 semester hours including:

**Physics Core Requirements** .....62.5

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 Lab	2
PHYS-3310 Theoretical Mechanics I	3
PHYS-3350 Thermal Physics	3
PHYS-3410 Electromagnetic Theory I	3
PHYS-3510 Modern Physics	3
PHYS-3800 Research Methods in Physics	1
PHYS-4110 Advanced Physics Lab	2
PHYS-4210 Mathematical Methods for Physicists	3
PHYS-4520 Quantum Mechanics I	3
PHYS-4800 Physics Senior Seminar	1

**Electives selected from the following PHYS-3000 and**

**PHYS-4000-level courses** .....6

PHYS-3330 Acoustics	3
PHYS-4310 Theoretical Mechanics II	3
PHYS-4410 Electromagnetic Theory II	3
PHYS-4450 Optics	3
PHYS-4530 Quantum Mechanics II	3
PHYS-4550 Solid State Physics	3
PHYS-4880 Topics in Physics	1-3

\*All students must earn a C+ or higher in these courses.

### B.S. Physics Curriculum Summary

Proficiency Requirements	0-5
Other General Education Requirements	47.5
Physics Major Requirements	68.5
Electives	12
<b>Total (minimum, not including proficiency)</b>	<b>128</b>

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

*First year:*

BTGE-1720 Spiritual Formation	3
CHEM-1050 Chemistry for Engineers	3.5
COM-1100 Speech	3
CS-1210 C++ Programming	2
ENG-1400 English Composition	3
MATH-1710, 1720 Calculus I and II	10
PEF-1990 Physical Activity and the Christian Life	2
PHYS-2110 General Physics I	4
<b>Total</b>	<b>30.5</b>

*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
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
PHYS-3310 Theoretical Mechanics I	3
<b>Total</b>	<b>31.5</b>

*Third year:*

BTGE-3755 Theology I	3
BTGE-3765 Theology II	3
HUM-1400 Introduction to the Humanities	3
MATH-3610 Linear Algebra	3
PHYS-3110 Intermediate Physics Lab	2
PHYS-3350 Thermal Physics	3
PHYS-3410 Electromagnetic Theory I	3
PHYS-3510 Modern Physics	3
PHYS-3800 Research Methods in Physics	1
LIT-2XXX Literature Elective	3
Electives	6
<b>Total</b>	<b>33</b>

*Fourth year:*

PHYS-4110 Advanced Physics Lab	2
PHYS-4210 Mathematical Methods for Physicists	3
PHYS-4520 Quantum Mechanics I	3
PHYS-4800 Senior Seminar — Physics	1
Global Awareness	3
History Elective	3
Humanities Elective	3
Physics Electives	6
Social Science Elective	3
Electives	6
<b>Total</b>	<b>33</b>



## Teacher Education Licensure Programs Adolescent and Young Adult

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

- Chemistry
- Life Science
- Mathematics – Integrated
- Physical Science
- Physics
- Science Comprehensive – Integrated

The course requirements for each licensure field are outlined under each major. However, the following courses are common to all adolescent/young adult majors in this department:

<b>Teacher Education</b> .....	<b>41</b>
EDSE-4000 Reading in the Content Area: AYA.....	3
or EDUC-4000 Reading in the Content Area: AYA Math Educ 3	
EDSE-4100 Principles of Teaching .....	5
EDSE-4450 Adolescent/Young Adult Clinical Experience.....	3
EDSE-4900 Student Teaching and Seminar: AYA .....	12
EDSP-2000 Teaching Children with Exceptionalities .....	1
EDSP-2050 Field Experience: Exceptional Learning Needs ....	1
EDSP-4250 Communication, Collaboration and Inclusion.....	2
EDUC-1000 The Education Profession.....	2
EDUC-1050 Preliminary Student Involvement .....	0
EDUC-2000 Introduction to Diverse Learners .....	2
EDUC-2100 Technology in the Classroom .....	2
EDUC-2200 Multicultural Field Experience .....	1
EDUC-2500 Educational Psychology .....	3
EDUC-3100 Philosophical Foundations of Education .....	3
EDUC-3200 Faith and Learning Alignment .....	1

Specific information regarding admission to the Teacher Education Program and course descriptions is located in the School of Education section (page 79).

## Chemistry Education (Bachelor of Arts)

The **chemistry education major** prepares students to engage the culture as chemistry teachers in the middle school and high school setting, in both public and private institutions. The goal of the program is to prepare future educators with a heart for Christ and a high view of God's Word.

Course requirements involve 94.5 semester hours including:

<b>Chemistry Core Requirements</b> .....	<b>55.5</b>
CHEM-1010 Principles of Biochemistry .....	5
CHEM-1110, 1120 General Chemistry I and II .....	8
CHEM-2210 Analytical Chemistry I.....	3
CHEM-2800 Introduction to Research in Chemistry.....	1
CHEM-3210 Environmental Chemistry .....	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-1710 Calculus I .....	5
PHYS-1010, 1020 College Physics I and II .....	10
SCED-3110 Clinical Teaching in Science.....	1
SCED-3120 Teaching Science for Adolescent and Young Adult	3
<b>Teacher Education</b> .....	<b>41</b>

\*Capstone Course

## Chemistry Education (B.A.) Summary

Proficiency Requirements .....	0–5
General Education Requirements.....	38–46
Chemistry Education Major Requirements .....	55.5
Teacher Education Requirements.....	41
<b>Total (minimum, not including proficiency) .....</b>	<b>134.5</b>

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

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

#### First year:

BTGE-1720 Spiritual Formation .....	3
CHEM-1010 Principle of Biochemistry .....	5
CHEM-1110, 1120 General Chemistry I and II .....	8
COM-1100 Fundamentals of Speech.....	3
EDUC-1000 The Education Profession.....	2
EDUC-1050 Preliminary Student Involvement .....	0
ENG-1400 Composition.....	3
GBIO-1000 Principles of Biology .....	3.5
MATH-1710 Calculus I .....	5
<b>Total .....</b>	<b>32.5</b>

#### Second year:

BTGE-2730 Old Testament Literature.....	3
CHEM-2210 Analytical Chemistry I .....	3
CHEM-2800 Introduction to Research in Chemistry.....	1
EDSP-2000 Teaching Children with Exceptionalities .....	1
EDSP-2050 Field Experience: Exceptional Learning Needs .....	1
EDUC-2000 Introduction to Diverse Learners .....	2
EDUC-2100 Technology in the Classroom .....	2
EDUC-2200 Multicultural Field Experience .....	1
EDUC-2500 Educational Psychology .....	3
GSS-1100 Politics and American Culture.....	3
PHYS-1010, 1020 College Physics I and II .....	10
LIT-2XXX Literature Elective .....	3
<b>Total .....</b>	<b>33</b>

#### Third year:

BTGE-2740 New Testament Literature .....	3
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
EDUC-3200 Faith and Learning Alignment .....	1
HUM-1400 Introduction to the Humanities.....	3
SCED-3110 Clinical Teaching in Science.....	1
SCED-3120 Teaching Science for Adolescent and Young Adult .....	3
PEF-1990 Physical Activity and the Christian Life .....	2
<b>Total .....</b>	<b>34</b>

#### Fourth year:

CHEM-4800 Senior Seminar — Chemistry.....	1
EDSE-4000 Reading in the Content Area: AYA .....	3
EDSE-4100 Principles of Teaching .....	5
EDSE-4450 Adolescent/Young Adult Clinical Experience .....	3
EDSE-4900 Student Teaching and Seminar: AYA .....	12
EDSP-4250 Communication, Collaboration and Inclusion.....	2
EDUC-3100 Philosophical Foundations of Education .....	3
History Elective.....	3
Social Science Elective .....	3
<b>Total .....</b>	<b>35</b>



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

## Life Science Education — Bachelor of Arts

Course requirements involve 60.5 semester hours including:

<b>Biology Core Requirements</b> .....	<b>32</b>
BIO-1110 Introduction to Biology .....	4
BIO-1120 General Zoology .....	4
BIO-2250 Cell Biology .....	4
BIO-2500 General Botany .....	4
BIO-2600 General Ecology .....	3
BIO-3300 Genetics .....	4
BIO-3710 Biochemistry .....	4
*BIO-4800 Senior Seminar — Biology .....	1
<b>Biology electives selected from the following</b> .....	<b>4</b>
BIO-3410 Invertebrate Zoology .....	3
BIO-3450 Human Structure and Function I .....	4
BIO-3460 Human Structure and Function II .....	3
BIO-3510 Plant Physiology .....	3
BIO-3520 Plant Taxonomy .....	3
BIO-3610 Environmental Physiology and Ecology .....	4
BIO-4300 Molecular Biology of the Cell .....	4
BIOA-3600 Topics in Environmental Biology .....	4
<b>Physical Science/Mathematics/Science Methods</b> .....	<b>28.5</b>
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 .....	5
SCED-3110 Clinical Teaching in Science .....	1
SCED-3120 Teaching Science .....	3
<b>Teacher Education</b> .....	<b>41</b>

\*Capstone Course

### Life Science Education Summary

Proficiency Requirements .....	0–5
General Education Requirements .....	38–46
Life Science Education Major Requirements .....	60.5
Teacher Education Requirements .....	41
<b>Total (minimum, not including proficiency)</b> .....	<b>139.5</b>



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

#### First year:

BTGE-1720 Spiritual Formation .....	3
BIO-1110 Introduction to Biology .....	4
BIO-1120 General Zoology .....	4
CHEM-1110, 1120 General Chemistry I and II .....	8
EDUC-1000 The Education Profession .....	2
EDUC-1050 Preliminary Student Involvement .....	0
ENG-1400 Composition .....	3
GMTH-1030 Precalculus .....	4
PEF-1990 Physical Activity and the Christian Life .....	2
<b>Total</b> .....	<b>30</b>

#### Second year:

BTGE-2730 Old Testament Literature .....	3
BTGE-2740 New Testament Literature .....	3
BIO-2250 Cell Biology .....	4
BIO-2500 General Botany .....	4
BIO-2600 General Ecology .....	3
CHEM-3510 Organic Chemistry I .....	4
COM-1100 Fundamentals of Speech .....	3
EDSP-2000 Teaching Children with Exceptionalities .....	1
EDSP-2050 Field Experience: Exceptional Learning Needs .....	1
EDUC-2000 Introduction to Diverse Learners .....	2
EDUC-2100 Technology in the Classroom .....	2
EDUC-2200 Multicultural Field Experience .....	1
EDUC-2500 Educational Psychology .....	3
GSS-1100 Politics and American Culture .....	3
<b>Total</b> .....	<b>37</b>

#### Third year:

BTGE-3755 Theology I .....	3
BTGE-3765 Theology II .....	3
BIO-3300 Genetics .....	4
BIO-3710 Biochemistry .....	4
EDUC-3200 Faith and Learning Alignment .....	1
GSCI-1010 Principles of Earth Science .....	3.5
HUM-1400 Introduction to the Humanities .....	3
PHYS-1010 College Physics I .....	5
Biology Electives .....	4
LIT-2XXX Literature Elective .....	3
Social Science/Global Awareness Elective .....	3
<b>Total</b> .....	<b>36.5</b>

#### Fourth year:

BIO-4800 Senior Seminar–Biology .....	1
EDSE-4000 Reading in the Content Area: AYA .....	3
EDSE-4100 Principles of Teaching: AYA .....	5
EDSE-4450 Adolescent/Young Adult Clinical Experience .....	3
EDSE-4900 Student Teaching and Seminar: AYA .....	12
EDSP-4250 Communication, Collaboration and Inclusion .....	2
EDUC-3100 Philosophical Foundations of Education .....	3
SCED-3110 Clinical Teaching in Science .....	1
SCED-3120 Teaching Science .....	3
History Elective .....	3
<b>Total</b> .....	<b>36</b>

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

## Mathematics Education — Integrated (Bachelor of Arts)

Course requirements involve 59 semester hours including:

<b>Mathematics Core Requirements</b> .....	<b>42</b>
MATH-1710 Calculus I .....	5
MATH-1720 Calculus II .....	5
MATH-1990 Beautiful Math Structures and Thinking .....	3
MATH-2210 Logic and Methods of Proof .....	3
MATH-2710 Calculus III .....	3
*MATH-3050 Algebraic Structures for Secondary Education....	4
MATH-3110 Probability and Statistics I .....	3
MATH-3800 Research Methods in Mathematics .....	1
MATH-4410 Euclidean and Non-Euclidean Geometry .....	3
**MATH-4800 Capstone Experience in Mathematics .....	3
<b>Mathematics electives</b> .....	<b>6</b>
<b>One course selected from the following</b> .....	<b>3</b>
MATH-3550 Discrete Mathematics: Graph Theory.....	3
MATH-3560 Discrete Mathematics: Combinatorics.....	3
<b>Computer/Math Methods/Physics</b> .....	<b>17</b>
CS-1210 C++ Programming.....	2
MATH-2800 LaTeX for Technical Documents .....	1
MTED-3110 Clinical Teaching in Mathematics .....	1
MTED-3120 Teaching Mathematics.....	3
PHYS-2110 General Physics I .....	4
PHYS-2120 General Physics II .....	4
PHYS-2130 General Physics III .....	2
<b>Teacher Education</b> .....	<b>41</b>

\*A student may replace MATH-3050 by taking MATH-3500, MATH-3610, and MATH-4610.

\*\*Capstone Course

### Mathematics Education — Integrated Major (B.A.) Summary

Proficiency Requirements .....	0–5
General Education Requirements.....	41.5–49.5
Mathematics Education — Integrated Major Requirements .....	59
Teacher Education Requirements.....	41
<b>Total (minimum, not including proficiency)</b> .....	<b>141.5</b>



### Suggested Four-Year Curriculum for a Major in Mathematics Education (Integrated)

#### First year:

BTGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech.....	3
CS-1210 C++ Programming .....	2
EDUC-1000 The Education Profession.....	2
EDUC-1050 Preliminary Student Involvement .....	0
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
PEF-1990 Physical Activity and the Christian Life .....	2
<b>Total</b> .....	<b>32.5</b>

#### Second year:

BTGE-2730 Old Testament Literature.....	3
EDSP-2000 Teaching Children with Exceptionalities .....	1
EDSP-2050 Field Experience: Exceptional Learning Needs .....	1
EDUC-2000 Introduction to Diverse Learners .....	2
EDUC-2100 Technology in the Classroom .....	2
EDUC-2200 Multicultural Field Experience .....	1
EDUC-2500 Educational Psychology .....	3
GSS-1100 Politics and American Culture.....	3
MATH-2210 Logic and Methods of Proof .....	3
MATH-2710 Calculus III .....	3
MATH-3800 Research Methods in Mathematics .....	1
PHYS-2110, 2120 General Physics I and II.....	8
LIT-2XXX Literature Elective .....	3
<b>Total</b> .....	<b>34</b>

#### Third year:

BTGE-2740 New Testament Literature .....	3
BTGE-3755 Theology I.....	3
BTGE-3765 Theology II .....	3
EDUC-3200 Faith and Learning Alignment .....	1
HUM-1400 Introduction to the Humanities.....	3
MATH-3050 Algebraic Structures for Secondary Education .....	4
MATH-3110 Probability and Statistics I .....	3
MATH-4410 Euclidean and Non-Euclidean Geometry .....	3
MTED-3110 Clinical Teaching in Mathematics.....	1
Discrete Mathematics Elective.....	3
MATH-3XXX or 4XXX Elective .....	6
PHYS-2130 General Physics III .....	2
Social Science/Global Awareness Elective.....	3
<b>Total</b> .....	<b>38</b>

#### Fourth year:

EDUC-4000 Reading in the Content Area: AYA math education .....	3
EDSE-4100 Principles of Teaching .....	5
EDSE-4450 Adolescent/Young Adult Clinical Experience .....	3
EDSE-4900 Student Teaching and Seminar: AYA .....	12
EDSP-4250 Communication, Collaboration and Inclusion.....	2
EDUC-3100 Philosophical Foundations of Education .....	3
MATH-4800 Capstone Experience in Mathematics .....	3
MTED-3120 Teaching Mathematics.....	3
History Elective.....	3
<b>Total</b> .....	<b>37</b>

**Physical Science Education  
(Bachelor of Arts)**

Course requirements involve 69.5 semester hours including:

<b>Physical Science Core</b> .....	<b>69.5</b>
GBIO-1000 Principles of Biology .....	3.5
(or BIO-1110 Introduction to Biology.....)	4)
CHEM-1110, 1120 General Chemistry I and II .....	8
CHEM-3510 Organic Chemistry I .....	4
CHEM-3710 Biochemistry .....	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 Lab .....	2
PHYS-3510 Modern Physics .....	3
SCED-3110 Clinical Teaching in Science.....	1
SCED-3120 Teaching Science.....	3
<b>Research methods selected from the following</b> .....	<b>1</b>
CHEM-2800 Introduction to Research in Chemistry .....	1
PHYS-3800 Research Methods in Physics .....	1
<b>Senior capstone experience selected from the following...</b>	<b>1</b>
*CHEM-4800 Senior Seminar — Chemistry .....	1
*PHYS-4800 Senior Seminar — Physics .....	1
<b>Teacher Education</b> .....	<b>41</b>

\*Capstone Course

**Physical Science Education Curriculum Summary**

Proficiency Requirements .....	0–5
General Education Requirements.....	38–46
Physical Science Education Major Requirements .....	69.5
Teacher Education Requirements.....	41
<b>Total (minimum, not including proficiency)</b> .....	<b>148.5</b>


**Suggested Four-Year Curriculum for a Major  
in Physical Science Education — B.A.**
*First year:*

BTGE-1720 Spiritual Formation .....	3
CHEM-1110, 1120 General Chemistry I and II .....	8
COM-1100 Fundamentals of Speech .....	3
EDUC-1000 The Education Profession.....	2
EDUC-1050 Preliminary Student Involvement .....	0
ENG-1400 Composition.....	3
MATH-1710, 1720 Calculus I and II .....	10
PEF-1990 Physical Activity and the Christian Life .....	2
PHYS-2110 General Physics I .....	4
<b>Total</b> .....	<b>35</b>

*Second year:*

BTGE-2730 Old Testament Literature.....	3
BTGE-2740 New Testament Literature .....	3
GBIO-1000 Principles of Biology .....	3.5
(or BIO-1110 Introduction to Biology .....	4)
CHEM-3510 Organic Chemistry I .....	4
EDSP-2000 Teaching Children with Exceptionalities .....	1
EDSP-2050 Field Experience: Exceptional Learning Needs .....	1
EDUC-2000 Introduction to Diverse Learners .....	2
EDUC-2100 Technology in the Classroom .....	2
EDUC-2200 Multicultural Field Experience .....	1
EDUC-2500 Educational Psychology .....	3
ESCI-2310 Introduction to Oceanography .....	4
GSS-1100 Politics and American Culture.....	3
MATH-2740 Differential Equations.....	3
PHYS-2120, 2130 General Physics II and III .....	6
<b>Total</b> .....	<b>39.5</b>

*Third year:*

BTGE-3755 Theology I.....	3
BTGE-3765 Theology II .....	3
CHEM-3710 Biochemistry .....	4
ESCI-2510 Introduction to Astronomy.....	4
EDUC-3200 Faith and Learning Alignment .....	1
GEOL-1110 Introduction to Physical Geology .....	4
GEOL-1120 Historical Geology.....	4
HUM-1400 Introduction to the Humanities.....	3
PHYS-3510 Modern Physics .....	3
PHYS-3800 Research Methods in Physics.....	1
(or CHEM-2800 Introduction to Research in Chemistry .....	1)
History Elective.....	3
LIT-2XXX Literature Elective .....	3
Social Science/Global Awareness Elective.....	3
<b>Total</b> .....	<b>39</b>

*Fourth year:*

EDSE-4000 Reading in the Content Area: AYA .....	3
EDSE-4100 Principles of Teaching .....	5
EDSE-4450 Adolescent/Young Adult Clinical Experience .....	3
EDSE-4900 Student Teaching and Seminar: AYA .....	12
EDSP-4250 Communication, Collaboration and Inclusion.....	2
EDUC-3100 Philosophical Foundations of Education .....	3
PHYS-3110 Intermediate Physics Lab .....	2
PHYS-4800 Senior Seminar — Physics .....	1
(or CHEM-4800 Senior Seminar — Chemistry.....)	1)
SCED-3110 Clinical Teaching in Science.....	1
SCED-3120 Teaching Science .....	3
<b>Total</b> .....	<b>35</b>

**Physics Education  
(Bachelor of Arts)**

Course requirements involve 61 semester hours including:

<b>Physics Core Requirements</b> .....	<b>26</b>
PHYS-2110, 2120, 2130 General Physics I, II, and III.....	10
PHYS-3110 Intermediate Physics Lab .....	2
PHYS-3310 Theoretical Mechanics I .....	3
PHYS-3410 Electromagnetic Theory I .....	3
PHYS-3510 Modern Physics I.....	3
PHYS-3800 Research Methods in Physics.....	1
PHYS-4800 Senior Seminar — Physics .....	1
<b>Physics electives selected from the following</b> .....	<b>3</b>
PHYS-3350 Thermal Physics .....	3
PHYS-4210 Mathematical Methods for Physicists .....	3
PHYS-4410 Electromagnetic Theory II .....	3
PHYS-4450 Optics .....	3
PHYS-4520 Quantum Mechanics I .....	3
*PHYS-4880 Topics in Physics .....	1–3
<b>Departmental Requirements</b> .....	<b>35</b>
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
SCED-3110 Clinical Teaching in Science.....	1
SCED-3120 Teaching Science .....	3
<b>Teacher Education</b> .....	<b>41</b>

\*Capstone Course

**Physics Education Curriculum Summary**

Proficiency Requirements .....	0–5
Other General Education Requirements.....	38–46
Physics Education Major Requirements .....	61
Teacher Education Requirements .....	41
<b>Total (minimum, not including proficiency)</b> .....	<b>140</b>



**Suggested Four-Year Curriculum for a  
Major in Physics Education — B.A.**

*First year:*

BTGE-1720 Spiritual Formation .....	3
CHEM-1110, 1120 General Chemistry I and II .....	8
COM-1100 Fundamentals of Speech .....	3
EDUC-1000 The Education Profession.....	2
EDUC-1050 Preliminary Student Involvement .....	0
ENG-1400 Composition.....	3
MATH-1710, 1720 Calculus I and II .....	10
PEF-1990 Physical Activity and the Christian Life .....	2
PHYS-2110 General Physics I .....	4
<b>Total</b> .....	<b>35</b>

*Second year:*

BTGE-2730 Old Testament Literature.....	3
BTGE-2740 New Testament Literature .....	3
EDSP-2000 Teaching Children with Exceptionalities .....	1
EDSP-2050 Field Experience: Exceptional Learning Needs .....	1
EDUC-2000 Introduction to Diverse Learners .....	2
EDUC-2100 Technology in the Classroom .....	2
EDUC-2200 Multicultural Field Experience .....	1
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
Physics Elective .....	3
<b>Total</b> .....	<b>37.5</b>

*Third year:*

BTGE-3755 Theology I.....	3
BTGE-3765 Theology II.....	3
EDUC-3200 Faith and Learning Alignment .....	1
GSCI-1010 Principles of Earth Science .....	3.5
HUM-1400 Introduction to the Humanities.....	3
PHYS-3110 Intermediate Physics Laboratory .....	2
PHYS-3310 Theoretical Mechanics I .....	3
PHYS-3510 Modern Physics I .....	3
PHYS-3800 Research Methods in Physics .....	1
SCED-3110 Clinical Teaching in Science.....	1
History Elective.....	3
LIT-2XXX Literature Elective .....	3
Social Science/Global Awareness Elective.....	3
<b>Total</b> .....	<b>32.5</b>

*Fourth year:*

EDSE-4000 Reading in the Content Area: AYA .....	3
EDSE-4100 Principles of Teaching .....	5
EDSE-4450 Adolescent/Young Adult Clinical Experience .....	3
EDSE-4900 Student Teaching and Seminar: AYA .....	12
EDSP-4250 Communication, Collaboration and Inclusion.....	2
EDUC-3100 Philosophical Foundations of Education .....	3
PHYS-3410 Electromagnetic Theory I .....	3
PHYS-4800 Senior Seminar — Physics .....	1
SCED-3120 Teaching Science .....	3
<b>Total</b> .....	<b>35</b>

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

## Science Comprehensive Education — Integrated (Bachelor of Arts)

Course requirements involve 73 semester hours including:

<b>Core Requirements</b> .....	<b>63</b>
BIO-1110 Introduction to Biology.....	4
BIO-1120 General Zoology.....	4
BIO-2500 General Botany.....	4
BIO-2600 General Ecology.....	3
BIO-3300 Genetics.....	4
*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.....	10
SCED-3110 Clinical Teaching in Science.....	1
SCED-3120 Teaching Science.....	3
<b>Electives selected from the following</b> .....	<b>10</b>
<b>One biology selected from the following</b> .....	<b>3</b>
BIO-3410 Invertebrate Zoology.....	3
BIO-3450 Human Structure and Function I.....	4
BIO-3510 Plant Physiology.....	3
BIO-3520 Plant Taxonomy.....	3
BIO-3610 Environmental Physiology and Ecology.....	4
BIO-4300 Molecular Biology of the Cell.....	4
BIOA-3600 Topics in Environmental Biology.....	4
<b>One chemistry selected from the following</b> .....	<b>3</b>
CHEM-2210 Analytical Chemistry I.....	3
CHEM-3520 Organic Chemistry II.....	4
<b>One earth science selected from the following</b> .....	<b>4</b>
GEOL-1120 Historical Geology.....	4
ESCI-2310 Introduction to Oceanography.....	4
ESCI-2410 General Meteorology.....	4
<b>Teacher Education</b> .....	<b>41</b>

\*Capstone Course

<b>Science Comprehensive Education — Integrated Summary</b>	
Proficiency Requirements.....	0–5
General Education Requirements.....	38–46
Science Comprehensive Education Major Requirements.....	73
Teacher Education Requirements.....	41
<b>Total (minimum, not including proficiency)</b> .....	<b>152</b>



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

First year:

BTGE-1720 Spiritual Formation.....	3
BIO-1110 Introduction to Biology.....	4
BIO-1120 General Zoology.....	4
CHEM-1110, 1120 General Chemistry I and II.....	8
CHEM-2800 Introduction to Research in Chemistry.....	1
EDUC-1000 The Education Profession.....	2
EDUC-1050 Preliminary Student Involvement.....	0
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 the Christian Life.....	2
<b>Total</b> .....	<b>38</b>

Second year:

BTGE-2730 Old Testament Literature.....	3
BTGE-2740 New Testament Literature.....	3
BIO-2500 General Botany.....	4
BIO-2600 General Ecology.....	3
CHEM-3510 Organic Chemistry I.....	4
COM-1100 Fundamentals of Speech.....	3
EDSP-2000 Teaching Children with Exceptionalities.....	1
EDSP-2050 Field Experience: Exceptional Learning Needs.....	1
EDUC-2000 Introduction to Diverse Learners.....	2
EDUC-2100 Technology in the Classroom.....	2
EDUC-2200 Multicultural Field Experience.....	1
EDUC-2500 Educational Psychology.....	3
ESCI-2510 Introductory Astronomy.....	4
<b>Total</b> .....	<b>34</b>

Third year:

BTGE-3755 Theology I.....	3
BTGE-3765 Theology II.....	3
BIO-3300 Genetics.....	4
CHEM-3710 Biochemistry.....	4
EDUC-3200 Faith and Learning Alignment.....	1
HUM-1400 Introduction to the Humanities.....	3
PHYS-1010, 1020 College Physics I and II.....	10
Biology Elective.....	3
Chemistry Elective.....	3
History Elective.....	3
LIT-2XXX Literature Elective.....	3
Social Science/Global Awareness Elective.....	3
<b>Total</b> .....	<b>43</b>

Fourth year:

BIO-4800 Senior Seminar — Biology.....	1
EDSE-4000 Reading in the Content Area: AYA.....	3
EDSE-4100 Principles of Teaching.....	5
EDSE-4450 Adolescent/Young Adult Clinical Experience.....	3
EDSE-4900 Student Teaching and Seminar: AYA.....	12
EDSP-4250 Communication, Collaboration and Inclusion.....	2
EDUC-3100 Philosophical Foundations of Education.....	3
SCED-3110 Clinical Teaching in Science.....	1
SCED-3120 Teaching Science.....	3
Earth Science Elective.....	4
<b>Total</b> .....	<b>37</b>

## Minors

The minors in the Department of Science and Mathematics are designed to provide nonmajors with additional background in the biological sciences, mathematics, and physical sciences.

### Actuarial Science Minor

Course requirements for the **actuarial science minor** involve 40 semester hours including:

ACCT-2110 Principles of Accounting I.....	3
ECON-2330 Microeconomics.....	3
ECON-2340 Macroeconomics.....	3
FIN-3710 Principles of Finance.....	3
GMTH-3100 Theory of Interest.....	3
MATH-1710, 1720, 2710 Calculus I, II, and III.....	13
MATH-3110, 4110 Probability and Statistics I and II.....	6
MATH-3610 Linear Algebra.....	3
MRKT-3600 Principles of Marketing.....	3

### Bioethics Minor

Course requirements for the **bioethics minor** involve 16.5–17.5 semester hours including:

BTPA-2200 Introduction to Philosophy.....	3
BTPA-2250 Ethics.....	3
GBIO-1000 Principles of Biology (or higher-level BIO course)....	3.5
GBIO-4700 Bioethics Colloquium.....	1

### Human studies elective (select one).....3-4

GBIO-2010 Human Anatomy and Physiology I.....	4
BIO-3450 Human Structure and Function I.....	4
PYCH-1600 General Psychology.....	3
ANTH-1800 Cultural Anthropology.....	3

### Bioethics elective (select one).....3

BIO-4710 Principles of Bioethics.....	3
GBIO-2720 Bioethics and the Human Experience.....	3

### Biology Minor

Course requirements for the **biology minor** involve 19 semester hours including:

BIO-1110 Introduction to Biology.....	4
BIO-1120 General Zoology.....	4
BIO-2500 General Botany.....	4
BIO-2600 General Ecology.....	3

### Biology Electives.....4

### Chemistry Minor

Course requirements for the **chemistry minor** involve 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
Chemistry Electives.....	3



### Earth Science Minor

Course requirements for the **earth science minor** involve 20 semester hours including:

GEOL-1110 Introduction to Physical Geology.....	4
GEOL-1120 Historical Geology.....	4
ESCI-2310 Introduction to Oceanography.....	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
<b>Mathematics electives selected from the following.....</b>	<b>9</b>
MATH-2210 Logic and Methods of Proof.....	3
MATH-2710 Calculus III.....	3
MATH-2740 Differential Equations.....	3

**Any 3000- or 4000-level mathematics course**



**Physics Minor**

Course requirements for the **physics minor** involve 18 semester hours including:

PHYS-2110, 2120, 2130 General Physics I, II, and III.....	10
PHYS-3110 Intermediate Physics Laboratory .....	2
PHYS-3510 Modern Physics .....	3
<b>Physics Electives.....</b>	<b>3</b>

**Special Programs**
**Preagriculture Curriculum**

The **preagriculture curriculum** is designed to satisfy the technical and non-technical requirements of the first two years of a typical agriculture program. Students should research agricultural schools to which they wish to transfer at the junior level so that application materials can be completed in advance of deadlines. The preagriculture students should confer with their advisor to select electives based on the following criteria:

- The requirements of the school to which they will transfer after leaving Cedarville University
- The specific agricultural program they wish to enter

Course requirements include core requirements and an emphasis in either agriculture business or agriculture science.

Core requirements include:

BTGE-1720 Spiritual Formation .....	3
BIO-1110 Introduction to Biology.....	4
CHEM-1110 General Chemistry I.....	4
ENG-1400 Composition.....	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:

<b>Two courses selected from.....</b>	<b>10</b>
ACCT-2110 Principles of Accounting .....	3
BIO-1120 General Zoology .....	4
BIO-2500 General Botany.....	4
BIO-2600 General Ecology .....	3
BIO-2210 Microbiology.....	4
BIO-3300 Genetics .....	4
BUS-2150 Statistics 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 General Zoology .....	4
BIO-2500 General Botany .....	4
BIO-2600 General Ecology.....	3
CHEM-3510, 3520 Organic Chemistry I and II .....	8
MATH-1720 Calculus II .....	5
MATH-3110 Probability and Statistics I .....	3
Biological Science Elective.....	4
(or CHEM-3710 Biochemistry .....	4)
Humanities Elective .....	3
Social Science Elective .....	3

**Environmental Biology Emphasis**

The **environmental biology emphasis**, within the biology major, provides undergraduate preparation for students who wish to emphasize the biological sciences while pursuing careers in such fields as conservation biology, wildlife biology, environmental toxicology, and environmental health.

BIO-3800 Biological Research.....2

**Electives selected from.....** 16

BIO-2210 Microbiology.....	4
BIO-3410 Invertebrate Zoology .....	3
BIO-3420 Vertebrate Zoology .....	3
BIO-3520 Plant Taxonomy .....	3
BIO-3610 Environmental Physiology and Ecology .....	4
BIO-4910 Environmental Biology Internship .....	2
*BIOA-3220 Aquatic Biology .....	4
*BIOA-4710 Conservation Biology .....	4
*BIOA-4820 Restoration Ecology .....	4
ENVS-2100 Introduction Geographic Information Systems ..	3
ENVS-3200 Ecosystem Science.....	3

\*Course provided by Cedarville University in partnership with AuSable Institute.

Additional elective courses may be completed in May or Summer sessions at AuSable Institute by approval of the student's academic advisor.

**Medical Technology Option**

A **medical technology** option is available within the biology major. The student must spend one year in a hospital internship program to become a certified medical technologist. Prerequisites to the hospital internship include: 16 hours of biology, 16 hours of chemistry, one mathematics course, and completion of all general education requirements.

Students may do an internship during their senior year with 32 hours of transfer credit applied to the biology major upon successful completion of the internship. Many students complete the requirements for a biology major first and then take the internship after graduation from Cedarville University.



**Predental, Premedical, Preoptometric, Preosteopathic, Physician's Assistant, Prepharmacy, and Preveterinary Medicine**

Cedarville University students have been successful in gaining admission to medical and professional schools. For many of these schools, no specific major is required; however, students typically choose majors in biology or chemistry. In addition to general degree requirements, the following courses are recommended for admission:

*Biology courses:*

BIO-1110 Introduction to Biology.....	4
BIO-1120 General Zoology .....	4
BIO-2210 Microbiology .....	4
BIO-3300 Genetics .....	4
BIO-3420 Vertebrate Zoology .....	3
(or BIO-4410 Developmental Biology.....)	4)
BIO-3450, 3460 Human Structure and Function I and II .....	8
BIO-4710 Principles of Bioethics .....	3
(or BIO-4770 Pathophysiology .....	3)

*Chemistry courses:*

CHEM-1110, 1120 General Chemistry I and II .....	8
CHEM-3510, 3520 Organic Chemistry I and II .....	8
CHEM-3710 Biochemistry .....	4

*Additional courses:*

MATH-1710, 1720 Calculus I and II .....	10
PHYS-1010, 1020 College Physics I and II .....	10
(or PHYS-2110, 2120 General Physics I and II.....)	8)

Note: Students who desire admission to physician assistant programs will also need to have 1,000 hours or more of direct health care experience. Specific requirements vary from one program to another.



**Prephysical Therapy**

Many Cedarville students who successfully apply to graduate programs in physical therapy have completed the B.A. in biology. Students should contact the specific schools they wish to attend to determine the exact prerequisites. Physical therapy schools usually require 40 to 100 hours of experience assisting a licensed physical therapist prior to application. In addition to general degree requirements, the following courses are recommended for admission to most physical therapy schools:

*Biology courses:*

BIO-1110 Introduction to Biology.....	4
BIO-1120 General Zoology .....	4
BIO-3300 Genetics .....	4
BIO-3450, 3460 Human Structure and Function I and II .....	7
BIO-4770 Pathophysiology .....	3

*Chemistry courses:*

CHEM-1110, 1120 General Chemistry I and II .....	8
CHEM-3510 Organic Chemistry I .....	4
CHEM-3710 Biochemistry .....	4

*Additional mathematics and science courses:*

GMTH-1030 Precalculus.....	4
PHYS-1010, 1020 College Physics I and II .....	10

*Psychology:*

PYCH-1600 General Psychology .....	3
PYCH-2600 Human Development: Lifespan .....	3
PYCH-2610 Statistics.....	3
PYCH-2640 Psychology of Abnormal Behavior .....	3

*Other highly recommended electives:*

ATRN-2650 Therapeutic Exercise.....	3
ATRN-3660 Therapeutic Modalities .....	3
BIO-4710 Principles of Bioethics .....	3
ESS-3920 Biomechanics.....	3
ESS-3940 Structural Kinesiology .....	1
ESS-3900 Physiology of Exercise .....	3







# Department of Social Work

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## Mission Statement

The Cedarville University Department of Social Work develops competent servant leaders grounded in biblical truth to practice generalist social work in diverse settings worldwide advancing human and community well-being.

## Department Objectives

Graduates of the Cedarville University Baccalaureate Social Work Program will demonstrate a basic level of competency in the profession of social work by

- Integrating faith and practice through a process of ethical reasoning while respecting spiritual diversity.
- Evaluating multiple sources of knowledge and applying strategies of ethical reasoning to integrate knowledge and practice.
- Communicating effectively with diverse individuals, groups, communities, organizations, and colleagues while being mindful of the importance of difference in shaping life experiences.
- Assuring continual professional development by practicing reflection and self-correction and managing personal values in a way that allows professional values to guide practice.
- Assessing client strengths and needs using a bio-psycho-social-spiritual model and analyzing, formulating, and advocating for policies that advance social well-being, recognizing the extent to which a culture's structures and values may oppress, marginalize, alienate, or create or enhance privilege and power.

## Personal Requirements

A solid high school college preparatory program provides an excellent background for students entering the social work major.

## Department Requirements

To graduate with a degree from the Department of Social Work students must earn a cumulative average of 2.5 or higher and a "C-" or higher in all courses required by the major. In addition, students must be admitted into the social work program.

### Admission to the Social Work Program

Admission to the social work program occurs during the sophomore year. Freshmen and sophomores interested in social work should declare their intent to major in social work and meet with an appropriate advisor to ensure that courses are taken in the proper sequence.

### Admission Requirements and Procedures

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 CedarInfo.

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.

## Programs of Study

Cedarville's social work program leads to a Bachelor of Science (B.S.) degree in social work.

## Cocurricular Opportunities

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

### Epsilon Alpha Pi

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

### Epsilon Omega

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

## Technical Resources

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

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

The department prepares students for careers directly following graduation. Through a variety of modalities (including field work and class presentation by practitioners), students are able to network with actual career representatives.

## Career Opportunities

Graduates of the department have attended some of the nation's outstanding graduate and professional schools. Careers pursued by graduates include:

- Administrator
- Adoption social worker
- Children's services social worker
- Community developer
- Family violence prevention case worker
- Government worker
- Medical social worker
- Mental health social worker
- Missionary
- Prison caseworker
- Probation officer
- School social worker
- Senior citizen center outreach worker
- Youth pastor

## Faculty

**Nelson Henning**, *Chair*; Senior Professor of Social Work. *Education*: B.S.W., Southern Illinois University, 1976; M.S.W., University of Illinois, 1977; Ph.D., University of Pittsburgh, 1986. At Cedarville since 1994.

**Julie Furj-Kuhn**, Associate Professor of Social Work. *Education*: B.S.W., Philadelphia Biblical University, 2000; M.S.W., The University of Pennsylvania, 2004. Ph.D. (ABD), Memorial University (2015). At Cedarville since 2008.

**George Huff**, Professor of Social Work. *Education*: B.A., Ashland University, 1973; M.S.S.A., Case Western Reserve University, 1977. Licensed Independent Social Worker-Supervisor. At Cedarville since 2000.

**Maurice Lee**, Assistant Professor of Social Work. *Education*: B.A., Central State University, 1996; M.S.W., University of Cincinnati 2007. At Cedarville since 2014.

## Social Work

The **social work major** prepares students for future ministries/ careers in professional social work, professional church and church-related specializations, and informal assistance. The wide range of opportunities within the social work field provides graduates with numerous ways of investing in the lives of individuals, families, groups, and communities.

The social work program is accredited by the Council of Social Work Education. Social work graduates are eligible for licensure and for advanced standing in graduate schools of social work. Advanced standing allows students to earn a Master of Social Work degree in a little over one year.

## Goals

The goal of the social work program is ultimately to enable students to integrate the knowledge, values, and skills of the social work profession into competent practice by:

1. Providing content about social work practice from a generalist perspective with client systems of various sizes and types.
2. Preparing students with the skills, values, and knowledge to practice with diverse populations at risk.
3. Providing content about social contexts, the changing nature of those contexts, the behavior of organizations, and the dynamics of change.
4. Preparing students who are aware of their responsibilities to continue their professional growth and development.
5. Preparing students to practice with populations at risk with unique discrimination and oppressive histories (with a special focus on poverty).
6. Integrating biblical principles throughout the curriculum so that students can appropriately integrate their faith and that of their clients into the helping relationship.
7. Laying a foundation of core skills essential to a high caliber of social work practice (i.e., problem solving, listening, verbal and written communication, and critical thinking).
8. Creating an appreciation for the profession as well as an understanding of the history, personalities, and issues and events that helped to shape it.
9. Infusing throughout the curriculum the values and ethics that guide professional social workers in their practice.

## International Field Experience

The social work program offers an international field experience in India, Uganda, or Romania to junior or senior social work students. Students work in a variety of social service agencies in the host country, supervised by an on-site master's level social worker and under the direction of the Department of Social Work's international field coordinator. Courses at a local university expand the student's understanding of the host country, and planned activities further enhance the cultural experience. Students receive academic credits for the course work and for the internship, allowing them to complete their Cedarville degree within the normal four years. The international field coordinator supports the student throughout the entire process — pre-departure, during the international experience, and after the student's return to campus.

International field experience is available over the summer break or during the school year. Students interested in international field experience should meet with their advisor as early as possible to discuss the feasibility and scheduling needs.



Students should then meet with the international field coordinator to initiate the application process.

*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.

Three reference letters from the following individuals are required for acceptance for an international field experience:

- Advisor or faculty member
- Pastor
- Friend

*Pre-Departure Requirements*

The student will meet with the international field coordinator once a week for four weeks for a briefing of each country's culture, people, climate, and other pertinent topics. The student is to complete assigned readings and come prepared for discussion. Questions of concern or interest will also be discussed during the weekly sessions.

The student must also fulfill all orientation obligations within the international programs department.

*Reentry Requirements*

It is recommended the student keep their return semester as light as possible. The student will meet with the international field coordinator once a week for two months during the return semester. The student will be required to read and discuss *Re-Entry* by Peter Jordan.

The student must also fulfill all reentry obligations within the international programs department.

**Social Work Advisory Council**

The Social Work Advisory Council consists of social work professionals, agency administrators, clergy, and educators representing public, private, and church-related service agencies. Through semi-annual meetings, these experts advise the program and evaluate its plans for training skilled social work professionals with a commitment to core values and a biblical world and life view.

- Robert Bruce, Choices, Inc.*
- Nelson Henning, Advisory Council Chair, Cedarville University, Cedarville, Ohio*
- Julie Kuhn, Cedarville University, Cedarville, Ohio*
- Sharon Guenther, Miami Valley Hospital, Dayton, Ohio*
- Deborah Holt, The Hospice of Dayton, Dayton, Ohio*
- George Huff, Cedarville University, Cedarville, Ohio*
- Esther Lanham, Advisory Council Secretary, Cedarville University, Cedarville, Ohio*
- Maurice Lee, Cedarville University, Cedarville, Ohio*
- Greg Meriweather, Wright State University*
- Jillyan Misiak, Student Representative, Cedarville University, Cedarville, Ohio*
- Alisha Murray, Daybreak Inc.*
- Dianne Smith-Foster, Dayton Veterans Administration Homeless Program, Dayton, Ohio*
- Amanda Stables, Student Representative, Cedarville University, Cedarville, Ohio*
- Denise Summerville, Greene County Board of MRDD, Xenia, Ohio*
- Eric VanVlymen, Alzheimer's Association, Dayton, Ohio*
- Barry Wideman, Dayton Veterans Administration Medical Center*
- Grace Winner, Greene County Juvenile Court*



**Social Work**

Course requirements for the B.S. degree with a major in social work involve 84.5 semester hours including:

<sup>1</sup> BTPA-2200 Introduction to Philosophy .....	3
<sup>1</sup> GBIO-1000 Principles of Biology .....	3.5
<sup>1</sup> HIST-3750 Social Movements .....	3
PYCH-1600 General Psychology .....	3
SOC-1300 Introduction to Sociology .....	3
<sup>2</sup> SWK-1100 Total Immersion Experience .....	1
<sup>1,2</sup> SWK-2330 Introduction to Social Work.....	3
<sup>2</sup> SWK-2350 Field Survey .....	2
<sup>2</sup> SWK-2840 Concepts of Chemical Dependency.....	3
<sup>2</sup> SWK-2900 Ethics in the Helping Professions.....	3
<sup>3</sup> SWK-3010 Human Behavior and Social Environment.....	3
<sup>3</sup> SWK-3020 Generalist Social Work Practice with Multicultural Groups .....	3
<sup>3</sup> SWK-3110 Social Welfare Programs and Policy .....	4
<sup>3</sup> SWK-3210 Social Work Practice with Individuals and Families.....	4
<sup>3</sup> SWK-3430 Junior Seminar I.....	1
<sup>3</sup> SWK-3440 Junior Field Experience I.....	3
<sup>3</sup> SWK-3450 Junior Seminar II.....	1
<sup>3</sup> SWK-3460 Junior Field Experience II.....	3
<sup>3</sup> SWK-4210 Social Work Practice with Diverse Populations.....	3
<sup>3</sup> SWK-4220 Social Work Practice with Communities and Organizations .....	4
<sup>3*</sup> SWK-4510 Senior Seminar I .....	2
<sup>3*</sup> SWK-4520 Senior Seminar II .....	2
<sup>3*</sup> SWK-4560 Senior Field Experience I.....	6
<sup>3*</sup> SWK-4570 Senior Field Experience II.....	6
<sup>1,3</sup> SWK-4610 Statistics for Social Workers .....	3
<sup>3</sup> SWK-4620 Social Work Research Methods .....	3
<b>Electives selected from.....</b>	<b>6</b>
<sup>1</sup> ANTH-1800 Cultural Anthropology.....	3
SWK-2500 Social Work with Aging Populations.....	3
SWK-2820 Social Work in Mental Health Settings.....	3

<sup>1</sup>Satisfies general education requirement.

<sup>2</sup>Available to non-majors.

<sup>3</sup>Available only to social work majors who have been accepted into the program.

\*Capstone Course

**Social Work Major Curriculum Summary**

Proficiency Requirements .....	0–5
General Education Requirements.....	41.5
Social Work Major Requirements .....	84.5
Electives .....	2
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

Because of the specific, sequential course requirements involved, completion of the program in four years requires careful planning. Failure to take courses in their sequential order may result in a fifth year for completion. Transfer students, particularly those transferring in as juniors, will most likely require three years of study at Cedarville to complete program requirements.

**Suggested Four-Year Curriculum for a Major in Social Work**

*First year:*

BTGE-1720 Spiritual Formation .....	3
BTGE-2730 Old Testament Literature.....	3
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
GBIO-1000 Principles of Biology .....	3.5
HUM-1400 Introduction to the Humanities.....	3
PYCH-1600 General Psychology.....	3
PEF-1990 Physical Activity and the Christian Life .....	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
<b>Total .....</b>	<b>32.5</b>

*Second year:*

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-2840 Concepts of Chemical Dependency.....	3
SWK-2900 Ethics in the Helping Professions .....	3
Physical Science Elective.....	3.5
Social Work program electives .....	6
Science or Math Elective .....	3
Electives .....	2
<b>Total .....</b>	<b>32.5</b>

*Third year:*

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 Multicultural Groups.....	3
SWK-3110 Social Welfare Programs and Policy .....	4
SWK-3210 Social Work Practice with Individuals and Families.....	4
SWK-3430, 3450 Junior Seminar I and II.....	2
SWK-3440, 3460 Junior Field Experience I and II.....	6
Science or Math Elective (Bioethics recommended) .....	3
<b>Total .....</b>	<b>34</b>

*Fourth year:*

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
<b>Total .....</b>	<b>29</b>



# Course Descriptions

Accounting (ACCT) .....	206	General Music (GMUS) .....	256
Adolescent / Young Adult Education (EDSE) .....	223	General Science (GSCI).....	270
Air Force ROTC (AES).....	253	General Social Science (GSS) .....	242
Allied Health (ALHL).....	248	Geography (GEO) .....	241
Anthropology (ANTH).....	240	Geology (GEOL).....	268
Arabic Language (ARBC) .....	234	German (GER).....	235
Army ROTC (MIL).....	253	History (HIST) .....	242
Art (ART).....	194	Honors (HON).....	247
Athletic Training (ATRN) .....	249	Humanities (HUM).....	257
Bible and Theology — Biblical Studies (BEBS/BTBS) .....	201	Industrial and Innovative Design (IDES) .....	195
Bible and Theology — New Testament (BENT/BTNT).....	204	Information Technology Management (ITM).....	209
Bible and Theology — Old Testament (BEOT/BTOT).....	204	International Studies (INTL).....	244
Bible and Theology — History and Theology (BETH/BTHT).....	203	Journalism (JOUR) .....	218
Bible and Theology — Biblical Languages (BTBL).....	201	Keyboard Pedagogy (KPMU).....	257
Bible and Theology — Applied Theology (BTAT).....	199	Liberal Arts (LART) .....	248
Bible and Theology — Christian Ministry (BTCM).....	201	Linguistics (LING).....	236
Bible and Theology — General Education (BTGE).....	203	Literature (LIT).....	236
Bible and Theology — Philosophy and Apologetics (BTPA).....	205	Management (MGMT) .....	211
Biology (BIO).....	264	Marketing (MRKT) .....	212
Broadcasting and Digital Media (BRDM).....	213	Mathematics (MATH).....	271
Business Administration (BUS) .....	206	Mathematics Education (MTED).....	273
Coaching (CCHG).....	249	Mechanical Engineering (EGME) .....	231
Conducting (CDMU).....	254	Middle Childhood Education (EDMC).....	222
College Studies (COLL) .....	247	Multi-Age Health Education (MAHE) .....	251
Communication Studies (COM).....	216	Multi-Age Physical Education (MAPE) .....	252
Computer Engineering (EGCP).....	227	Music Class Studies (CLMU) .....	255
Criminal Justice (CRJU) .....	240	Music Education (EDMU).....	255
Chemistry: Major (CHEM).....	266	Music History (HLMU) .....	256
Chemistry: General Education (CHEM).....	266	Music Performance (PFMU).....	257
Chinese (CHN).....	234	Music Private Study (PLMU).....	258
Church Music (CHMU).....	254	Music Technology (TYMU) .....	259
Computer Science (CS) .....	226	Music Theory (THMU) .....	258
Developmental (DEV).....	247	Nursing (NSG).....	260
Early Childhood Education (EDEC).....	221	Prepharmacy (PPHR) .....	261
Earth Science (ESCI).....	267	Physical Education Activity Courses (PEAX).....	252
Economics (ECON) .....	207	Physical Education Fitness (PEF).....	253
Education (EDUC).....	225	Physics: General Education (PHYS).....	273
Electrical Engineering (EGEE).....	228	Physics: Major (PHYS).....	273
English (ENG).....	234	Political Science (POLS).....	244
Environmental Science (ENVS) .....	267	Psychology (PSYCH).....	262
End-User Information Systems (EUIS) .....	208	Public Administration (PUAD) .....	246
Exercise and Sport Science (ESS).....	250	Science Education (SCED) .....	274
Exercise and Sport Science Education (ESED) .....	250	Sociology (SOC).....	246
Exercise and Sport Science Elective (ESSE) .....	250	Spanish (SPAN).....	238
Exercise Science (EXSC) .....	251	Sport Management (SMGT) .....	213
Film (FILM).....	235	Special Education (EDSP).....	224
Finance (FIN).....	208	Social Work (SWK) .....	274
Forensic Science (FORS).....	268	Professional Writing and Information Design (PWID).....	220
French (FREN).....	235	Theatre (THTR) .....	196
General Biology (GBIO) .....	268	Visual Communication Design (VCD).....	198
General Engineering (EGGN).....	230	Worship (WSHP).....	259
General Mathematics (GMTH) .....	270		

## Department of Art, Design, and Theatre Course Descriptions

### Art (ART)

#### **ART-1100 Introduction to Art**—Fa 3 hours

Introduction to visual vocabulary and the understanding of visual communication: form, line, space, color, texture, and movement. Development of visual awareness and analytical thinking in response to works of art, use of media, and techniques and the application of design principles.

#### **ART-1110 Drawing Foundations**—Fa, Sp 3 hours

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. *Prerequisite:* ART-1100 *Introduction to Art.* (Fee: \$75)

#### **ART-2110 Intermediate Drawing**—Sp 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. *Prerequisites:* ART-1110 *Drawing Foundations*; ART-1230 *Two-Dimensional Design.* (Fee: \$100)

#### **ART-2130 Painting Foundations**—Fa 3 hours

An introduction to oil painting, emphasizing the perception and use of light and color in accurately representing form and space. *Prerequisites:* ART-1110 *Drawing Foundations*; ART-1230 *Two-Dimensional Design.* (Fee: \$150)

#### **ART-2160 Sculpture Foundations**—Sp 3 hours

An exploration of basic studio sculpting including additive and subtractive methods in a variety of media: carving, modeling, casting, and assemblage. *Prerequisites:* ART-1230 *Two-Dimensional Design*; ART-2230 *Three-Dimensional Design.* (Fee: \$300)

#### **ART-2170 Printmaking Foundations**—Fa 3 hours

An introduction to intaglio and relief printmaking processes. *Prerequisites:* ART-2110 *Intermediate Drawing.* (Fee: \$250)

#### **ART-2230 Three-Dimensional Design**—Fa, Sp 3 hours

Application of principles of design and visual organization with emphasis on volume, mass, and rendering forms in space. *Prerequisite:* ART-1100 *Introduction to Art*, ART-1110 *Drawing Foundations*; ART-1230 *Two-Dimensional Design.* (Fee: \$175)

#### **ART-2250 Creative Photography**—Fa, Sp 3 hours

Students will learn and apply technical knowledge and compositional techniques necessary to produce creative, quality digital photographs. Additionally, students will gain historical and contemporary knowledge, skills, and appreciation of photography as a medium for artistic expression visual communication. Students must provide a digital point-n-shoot camera or DSLR camera. A tripod is recommended. (Fee: \$50)

#### **ART-3110 Advanced Drawing**—Fa, Sp 3 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. *Prerequisites:* ART-1110 *Drawing Foundations*; ART-1230 *Two-Dimensional Design*; ART-2110 *Intermediate Drawing.* Repeatable up to one time. (Fee: \$100)

#### **ART-3130 Intermediate Painting**—Sp 3 hours

Study of the principles of composition, value, pattern, tone, mood, and color theories. Emphasis is placed on the creative process from concept to finished art. Imaginative and individual responses of the student increase throughout the course. *Prerequisite:* ART-2130 *Painting Foundations.* (Fee: \$150)

#### **ART-3150 Ceramics**—Sp 3 hours

Provides an introduction to clay from construction to finished fired pieces. Students will build forms using basic hand-building techniques and the potter's wheel. Surface decoration will be emphasized using color, texture, and glazes. (Fee: \$175)

#### **ART-3160 Intermediate Sculpture**—Fa, Sp 3 hours

Beyond the additive (modeling) and subtractive (carving) processes of Sculpture Foundations, Intermediate Sculpture introduces the indirect process of casting sculptures in multiples. For this class, the cast material may be clay slip, wax, liquid stone, concrete, bronze, aluminum, or resin. Intermediate Sculpture introduces the human figure as a subject for modeling and casting. *Prerequisite:* ART-2160 *Sculpture Foundations.* (Fee: \$300)

#### **ART-3170 Intermediate Printmaking**—Fa, Sp 3 hours

Building upon the relief and intaglio processes, the student will add the processes of serigraphy (screen printing) and lithography. Subsequently, the student will concentrate on one of the four printing processes. The upper-level printmaking student is encouraged to combine printing techniques and create images of greater size with an emphasis on artistic statement. The proper matting and presentation of the print is included in this course. Instruction will consist of demonstrations, audio-visual lectures, and group and individual critiques. *Prerequisites:* ART-2110 *Intermediate Drawing*; ART-2170 *Printmaking Foundations.* (Fee: \$250)

#### **ART-3230 Watercolor**—Sp 3 hours

A location painting watercolor course for students who have had drawing instruction and who have a basic understanding of composition and color theory. *Prerequisites:* ART-1110 *Drawing Foundations*; ART-1230 *Two-Dimensional Design*; or by portfolio. (Fee: \$180)

#### **ART-3250 Studio Photography**—Fa 3 hours

Students will learn to control and manipulate various aspects and qualities of light in a photographic studio environment to create and implement lighting solutions for various commercial, fine art, and creative digital photography projects. Additional expenses for materials and services beyond the course fee are required for successful completion of this course — students should plan and budget accordingly. *Prerequisites:* ART-2250 *Creative Photography and declared digital photography minor or permission of instructor.* (Fee: \$200)

#### **ART-3310 Art History I**—Fa 3 hours

Survey of the development of western art and architecture from the ancient world through the early renaissance.

#### **ART-3320 Art History II**—Sp 3 hours

Survey of the development of western painting, architecture, sculpture, and the graphic arts from the early renaissance through impressionism at the end of the 19th century. *Prerequisite:* ART-3310 *Art History I.*

#### **ART-4130 Advanced Painting**—Fa, Sp 3 hours

Building upon Painting Foundations and Intermediate Painting, Advanced Painting allows for further exploration and focus as students develop a mature, exhibitable body of work. Student and professor will define course projects based on abilities and interest of the student. *Prerequisites:* ART-2130 *Painting Foundations*; ART-3130 *Intermediate Painting.* Repeatable up to one time.

#### **ART-4150 Advanced Ceramics**—Fa, Sp 3 hours

This course enables the student to expand the hand building and wheel thrown techniques of ART-3150 Ceramics. The upper level ceramics student is encouraged to develop expertise in ceramic methods of building, throwing, and decoration while developing personal artistic statements. *Prerequisites:* ART-2230 *Three-Dimensional Design*; ART-3150 *Ceramics.* (Fee: \$175) Repeatable up to two times.

**ART-4160 Advanced Sculpture—Fa, Sp 3 hours**

After learning the basics of sculptural skills in the first two courses of the concentration, Advanced Sculpture gives the student the opportunity to apply material skills to the newer forms of contemporary sculpture. Understanding the forms and issues of contemporary sculpture to accept or reject, better prepares the student for graduate school. Working from a broader technical knowledge of sculpture, the student has the freedom to combine processes in unique and original ways. *Prerequisites: ART-3160 Intermediate Sculpture.* (Fee: \$300) Repeatable up to two times.

**ART-4170 Advanced Printmaking—Fa, Sp 3 hours**

This printmaking course is for the advanced student who is completing a concentration in printmaking. By allowing the student to specialize in a particular technical process, this course focuses on presenting a unified body of prints reflecting a personal style and deeper thinking in preparation for the student's senior exhibition. This course encourages experimentation with the synthesis of analog digital technologies while maintaining traditional value for achieving the consistent multiple image. *Prerequisites: ART-2170 Printmaking Foundations; ART-3170 Intermediate Printmaking.* (Fee: \$300)

**ART-4250 Advanced Digital Photography—Fa 3 hours**

Students will learn, create, and apply advanced photography and digital image manipulation techniques on location, in the studio, and with Adobe Photoshop. With instructor guidance and approval, students will develop and complete a significant, comprehensive photography project related to their major or area of interest that demonstrates technical expertise, knowledge, creative composition, and artistic expression in digital photography. Additional expenses for materials and services beyond the course fee are required for successful completion of this course — students should plan and budget accordingly. *Prerequisites: ART-2250 Creative Photography and declared digital photography minor or permission of instructor.* (Fee: \$100)

**ART-4260 Photography Portfolio and Exhibition—Sp 2 hours**

As a capstone to the digital photography minor, students will produce both traditional and digital portfolios of their photography work, complete proper archival mounting and framing of photographs, participate in photographic exhibitions, and develop and apply knowledge of copyright and legal and ethical issues related to photography. Additional expenses for materials and services beyond the course fee are required for successful completion of this course — students should plan and budget accordingly. *Prerequisites: ART-4250 Advanced Digital Photography, or permission of the instructor.* (Fee: \$325)

**ART-4300 Art Exhibition—Sp 3 hours**

Designed to provide the student a hands-on experience in mounting an art exhibition. Topics include archival matting and framing, lighting, and hanging techniques, as well as publicity and signage. Studio work is a requirement to balance a portfolio of work for a senior exhibition. Capstone course. *Prerequisite: senior studio art major status.*

**ART-4400 20th Century Art—Fa 3 hours**

Investigation of the development of 20th century art history from Post-Impressionism to the present. Particular attention to the underlying worldviews and changes in media. Classroom lectures are supplemented with student research, critique, and museum studies. (odd years)

**ART-4440 Installation Art—Fa 3 hours**

Survey of Installation Art, culminating in student directed projects, executed on and off campus. *Prerequisite: ART-4400 20th Century Art recommended.* (Fee: \$125) (even years)

**ART-4980 Special Topics in Art—Fa, Sp, Su 1–3 hours**

This is a workshop for students who are interested in a collaborative studio learning experience in applied art. Applied areas offered include painting (watercolor, oil, acrylic), pottery, or photography. Rotation of course content will be determined by faculty schedules. In instances where Cedarville University faculty are acting as instructors in professional workshops held off-campus, Cedarville University students who participate and pay Cedarville tuition can earn elective credit. Actual contact hours would determine amount of credit granted. *Prerequisite: permission of the instructor.* (Fee: \$75).

**ART-4990 Independent Study in Art 1–3 hours**

Independent and intensive study in a particular area of art for individual students who demonstrate special interests and ability.

**Industrial and Innovative Design (IDES)****IDES-2000 History and Influences of Design—Sp 3 hours**

Survey of design from the 17th century to the present. The course highlights significant stages in the development and pivotal influences of design including technological advances, individual works, key movements, schools of thought, and approaches relative to time(s) and culture(s). Crosslisted with VCD.

**IDES-3110 Drawing in Dynamic Perspective I—Fa 3 hours**

This hands-on course includes lecture, demonstration, progressive hand-generated drawing exercises, and project work, all designed to reveal the hidden keys to training our creativity to perceive space and the geometry of space with greater authority. The principles of one-point and two-point perspective and related visual systems will be presented in a bold problem-solving format ranging in scale from the simple to the complex in order to accurately express our conceptual capabilities. (Fee: \$350)

**IDES-3120 Drawing in Dynamic Perspective II—Fa 3 hours**

Building on the visual authority and refined hand-drawing skills developed in Drawing in Dynamic Perspective I, this course explores in greater depth the application of advanced perspective principles in problem-solving scenarios for a diverse range of “core content” industrial design exercises. *Prerequisite: IDES-3110 Drawing in Dynamic Perspective I.*

**IDES-3210 Language of Line—Fa 4 hours**

Rapid visualization (Power Drawing) skills will be presented in lecture, demonstration, progressive hand-generated drawing exercises, and project work in an in-depth study of the “language of line” and how it generates visual confidence. The course analyzes the three keys to drawing authority: form, position and texture. Further, the course will place these elements into a process that will produce and solve design problems ranging from understanding basic volumes to successfully illustrating complex volumes through study of applied science, ergonomics, and ethics. *Prerequisite: IDES-3120 Drawing in Dynamic Perspective II.*

**IDES-3220 Innovative Media Systems—Fa 5 hours**

This course will introduce and encompass the application of creative “mediums” to complete presentation graphic pieces. Design media such as marker, pastel, tempera, toned pencils, computer graphics, etc., will be utilized in demonstration and practical hands-on study to generate impactful presentation studies. *Prerequisite: IDES-3210 Language of Line*

**IDES-3310 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.* (Fee: \$350)



**IDES-3320 4 hours****Fundamentals of Surface Development II–Sp**

The principles of this course will expand the model-building skill base by working with an advanced palette of materials to successfully illustrate a set of three-dimensional models.

*Prerequisite: IDES-3310 Fundamentals of Surface Development I.*

**IDES-3410 Three-Dimensional Composition–Sp 4 hours**

This course will lay the foundations for “finishing techniques” for modeling and act as an overview for the various software, hardware, hand-crafted, and artisan techniques required to gain a deeper appreciation of the visual impact potential of a finished model and/or prototype, and various presentation practices.

*Prerequisite: IDES-3320 Fundamentals of Surface Development II.*

**IDES-3420 Three-Dimensional Presentation–Sp 4 hours**

This course will lay 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.* (Fee: \$350)

**IDES-4020 Interior Space Design–Fa 3 hours**

This course is designed to focus on the development of the designer’s personal vision and preparation for careers in the area of interior design. Completed solutions will be created by the candidates through the understanding of human scale, consumer product trends, human interaction, interface, ergonomics, traffic patterns, interior design materials, etc. *Prerequisite: IDES-3420 Three-Dimensional Presentation.*

**IDES-4030 Transportation Design–Fa 4 hours**

This course is designed to focus on the development of the designer’s personal and client visions and for preparation with the career choice of transportation design. Completed solutions will be created through concept sketches exploring the world of mobility (aircraft, watercraft, automobile, etc.) *Prerequisite: IDES-3420 Three-Dimensional Presentation.*

**IDES-4040 Architectural/Exterior Space Design–Fa 4 hours**

Architectural exterior space design concentrates on the discipline of developing the designer’s expertise in utilizing structural materials to create the next generation of architectural design systems. Projects will include glass, metals, stone, and a diverse vocabulary of other materials that integrate the creative process to build confidence for this vocational choice. *Prerequisite: IDES-3420 Three-Dimensional Presentation.*

**IDES-4200 4 hours****Professional and Ethical Practices in Design–Sp**

Based on the previous semester’s exposure to various disciplines within the industrial and innovative design degree, the candidate will focus on an area of specialization and, with staff assistance, develop a thesis statement. Further, candidates will receive coaching from professionals and staff in the areas of design business ethics. *Prerequisite: IDES-4040 Architectural/Exterior Space Design.*

**IDES-4300 3 hours****Design Project: Selection Statement, Research, and Scope–Sp**

With staff and professional support, the candidates will embark on a research journey to discover real-world, market-applicable design solution research within a selected area of specialization. *Prerequisite: IDES-4200 Professional and Ethical Practices in Design.* (Fee: \$350)

**IDES-4400 Design Project and Presentation–Sp 11 hours**

In this capstone course, candidates will be assisted in completing their portfolio presentation skills, business case development, professional practices, and receive a professional written and oral critique of their work. *Prerequisite: IDES-4300 Design Project: Selection Statement, Research, and Scope.*

**Theatre (THTR)****THTR-1230 Voice for the Performer–Fa 3 hours**

Practical approach to developing a healthy speaking voice for professional use. Voice physiology provides foundation for effective breathing, quality, projection, and articulation for performance. Stage dialects are explored briefly as application of the International Phonetic Alphabet (IPA). Appropriate for actors, singers, public speakers, and voice over artists. Crosslisted with COM-1230.

**THTR-1360 Introduction to Costuming–Sp 3 hours**

This course is designed to provide the student an overview of the numerous aspects of costuming for theatre, including basic knowledge of the role of the costume designer and the process he or she undertakes in creating designs, the practical skills of constructing and sewing a costume, and the communication and critical thinking skills involved in theatre collaboration for the costume designer. (Fee: \$60)

**THTR-1410 Introduction to Theatre–Fa 3 hours**

Study of the history and development of theatre. Dramatic literature is considered a reflection of man and culture during various periods, dealing with philosophy, religion, and sociopolitical thought. A brief look at acting skills is also offered.

**THTR-1430 Stage Movement–Fa 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.

**THTR-1440 Stagecraft I–Fa, Sp 1 hour**

This course is designed to acquaint the student with selected elements of play production on a practical level. Students are assigned a project in an area of stagecraft such as properties, lighting, costuming, makeup, or set construction/decoration in relation to the mounting of a theatre production.

**THTR-1450 Stagecraft II–Fa, Sp 1 hour**

Designed to give the student a production staff supervisory experience. Students are assigned an area of stagecraft in relation to the mounting of a theatrical production. Skills learned in Stagecraft I are further developed, and leadership responsibilities required. *Prerequisite: THTR-1440 Stagecraft I.*

**THTR-1460 Theatre Participation–Fa, Sp 1 hour**

Students who participate in a theatre-directed play may receive one hour of credit. Participation must occur over a minimum of four weeks of the rehearsal process. Credit may be applied only to the semester in which the participation occurs or the semester immediately following. Repeatable up to four hours. Credit/no credit. *Prerequisite: permission of instructor.*

**THTR-1490 Introduction to Stage Lighting–Fa 3 hours**

This course is designed to provide the student an overview of the numerous aspects of lighting design for the theatre, including basic knowledge of the instruments, technology, element of design, lighting plots, and procedures for implementation. Students will be provided the opportunity to explore their technical and creative skills with hands-on experience in the DeVries Theatre. (Fee: \$60) (odd years)

- THTR-2130 Dramatic Literature–Sp** **3 hours**  
Study of the historical development of dramatic styles, theory, criticism, and construction. Can be applied to meet English or speech requirements, but not both.
- THTR-2350 Directing I–Fa** **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.
- THTR-2410 Advanced Performance Techniques–Sp** **3 hours**  
An advanced course in solo theatre performance where students learn performance techniques in monologues and monodrama. Special emphasis is placed on the solo presentation of multiple characters in both narrative and dramatic literature.  
*Prerequisite: THTR-2430 Acting I or permission of instructor.*
- THTR-2430 Acting I–Fa, Sp** **3 hours**  
Study in the principle theories of realistic acting is balanced with practice in experiencing character creation. Principles of physical and emotional character development are explored.
- THTR-2440 Stagecraft III–Fa** **1 hour**  
This course is designed to give the student an opportunity to work on the execution of an assigned design for the mainstage. The student may execute a set piece, costume, or lighting design.  
*Prerequisite: THTR-1450 Stagecraft II.*
- THTR-2460 Costume Design–Sp** **3 hours**  
Designed to provide the student with both theoretical knowledge and practical skills for designing costumes for a theatrical production. Each student will develop this craft through individual projects and work on a mainstage production. (Fee: \$50)
- THTR-2470 Makeup Design–Fa, Sp** **2 hours**  
Designed to provide the student with both theoretical knowledge and practical skills for makeup design and execution for a theatrical production. Each student will develop this craft through individual projects and work on a mainstage production. (Fee: \$150)
- THTR-2500 Introduction to Scenic Design–Sp** **3 hours**  
This course is designed to provide the student introductory overview of numerous aspects of scenic design, including history, technical issues, set construction, and contemporary design techniques for the traditional proscenium stage. There will be an emphasis on developing clear conceptual goals, supporting those goals with visual and text-based research, and translating those ideas into a cohesive scenic design. (Fee:\$60)
- THTR-2510 The Arts and Social Change–Sp** **3 hours**  
The nature of this course is to provide background in theory and practical work in arts related areas that focus on efforts to work effectively on behalf of those who are politically, economically, behaviorally, or spiritually oppressed. (odd years)
- THTR-3420 Theatre History I–Fa** **2 hours**  
An analysis of performative modes of a given culture within a historical study, reinforcing appreciation of the past and strengthening the understanding of one's own culture as well as different cultures. General survey of theatre history from the pre-Greek era to the present. Focus will be on prevailing philosophical orientation, major dramatists, theatre architecture and staging practices, styles of performance, costume design, innovations, and development.
- THTR-3430 Theatre History II–Sp** **2 hours**  
Survey of staging practices and innovations from mid-17th century to present, with study of representative plays from each era.
- THTR-3440 Stage Costume History–Fa** **3 hours**  
A general survey of western costuming for the stage from pre-Grecian to late twentieth century. This course provides an overview of the evolution of fashion as well as the social and cultural history affecting fashion change. (Fee: \$40)
- THTR-3450 Stagecraft IV–Sp** **1 hour**  
This course is designed to give the theatre major with a design concentration an opportunity to work in the chosen area of their senior theatre project. The student will execute a design for a mainstage production and may assist in the design process.  
*Prerequisite: THTR-2440 Stagecraft III.*
- THTR-3460 Acting II–Sp** **3 hours**  
An advanced course which builds upon and expands realism to showcase performance of Greek playwrights, Moliere, Shakespeare, and post-modern styles. Intensive studio work includes exploration of the cultures surrounding styles, as well as audition skills.  
*Prerequisite: THTR-2430 Acting I*
- THTR-3470 Dramaturgy–Sp** **3 hours**  
This course provides background in specialized theatre research for students interested in teaching theatre history, drama, dramatic literature, and directing productions at the secondary or college level.
- THTR-3490 Stage Lighting Design–Fa** **3 hours**  
The study of stage lighting theory and practice. Students will complete exercises in lighting design. Material covered includes basic electricity, equipment, and instruments. Practicum and stage work required. (Fee: \$35) (even years)
- THTR-3510 Directing II–Sp** **3 hours**  
An advanced course exploring the direction of period plays and stylistic genres other than realism. Student projects might include one-act or full-length plays. Students will become familiar with influential contemporary directors and directing theories.  
*Prerequisite: THTR-2350 Directing I.*
- THTR-3520 Scenic Painting–Sp** **3 hours**  
This course is designed to introduce students to scenic painting techniques. The student will hone painting skills through class projects. (Fee: \$75) (even years)
- THTR-3530 Techniques of American Musical Theatre–Fa** **2 hours**  
Structured as a studio dance class, basic steps and movements are taught for styles ranging from ballet, jazz, ballroom, and lyrical hip hop. Students gain skills from guest choreographers for performing in musical theatre. Appropriate for theatre and music students. (Fee: \$75)
- THTR-3610 Theatre for Young People–Fa** **2 hours**  
For integrated language arts majors and theatre students desiring a theatre elective. Provides background and experience in theatre games, improvisation techniques, and educational theatre productions for pre-K through grade 12. Includes role-playing, play therapy, and dramathrapy theory.  
*Prerequisite: admission to Teacher Education Program or theatre major or permission of instructor.* (Fee: \$60) (odd years)
- THTR-3650 Playwriting–Fa** **3 hours**  
This course is designed as a means of providing an opportunity for the student to concentrate on the writing of plays as a part of preparation for graduate work, ministry and worship, and the creation of new works for theatre. The emphasis will be on creative storytelling in dramatic form, including experimental work in varying formats. (even years)
- THTR-3850 Seminar in Arts Administration and Arts Law–Sp** **2 hours**  
A seminar course providing background in arts administration and arts law, with significant research and presentation responsibilities for students. An overview of issues involved in the operation of arts organizations.(Fee: \$75)
- THTR-4400 Professional Preparation Seminar–Fa** **2 hours**  
Prepares the senior theatre arts student for entry into the professional arts community and/or graduate study. Topics include audition/portfolio preparation and presentation, resumé writing, interviewing techniques, graduate study/assistantship options, professional union affiliation, etc. (Fee: \$125)

- THTR-4500 Scenic Design**–Fa **3 hours**  
A theatre course that emphasizes the analysis and interpretation of scripts, use of research material, and techniques of presentation. Includes an introduction to the practices of drafting and modeling. (Fee: \$55) (odd years)
- THTR-4630 The Christian in Theatre**–Sp **2 hours**  
The student will evaluate selected plays, both classic and contemporary, through a biblical perspective. The course addresses issues faced by the Christian artist regarding career choices and the challenges faced in contemporary theatre.
- THTR-4640 Special Topics**–Fa, Sp **3 hours**  
Topics of specialized theatrical interest are examined on an as-needed basis. Repeatable up to six credit hours.
- THTR-4750 Independent Study: Theatre**–Fa, Sp **1–2 hours**  
Independent study in a selected field for students with special interests and demonstrated ability. Repeatable up to eight credit hours.
- THTR-4810 Internship: Theatre**–Fa, Sp, Su **0–6 hours**  
Students are placed with professional organizations to gain experience in actual career situations. Internships depend upon availability. Repeatable up to 12 hours.
- THTR-4840 Senior Theatre Project**–Fa, Sp **3 hours**  
The Senior Theatre Project (STP) has two goals: to culminate the student's work at Cedarville with a project presenting the student's highest caliber of work and to prepare the student to achieve personal and professional goals. The theatre major is given a variety of choices through which to fulfill the STP requirement: solo performance, directed production, theatre design, or dramaturgical study. Before determining the nature of the STP, the student must determine personal and professional goals. The theatre major begins shaping the STP immediately upon enrollment in the major. All theatre majors work with a theatre advisor. Capstone course. (Fee: \$50)
- Visual Communication Design (VCD)**
- VCD-1100 Digital Imaging: Adobe Photoshop**–Fa, Sp **3 hours**  
An introduction to digital imaging technology and professional techniques for image editing and photo manipulation. The course will provide opportunities for becoming proficient with the tools and techniques associated with Adobe Photoshop, the industry-standard software for image editing, through classroom discussion, projects, tutorials, and studio assignments. GD majors and minors only. (Fee: \$50)
- VCD-1150 Digital Imaging: Adobe Illustrator**–Sp **3 hours**  
An introduction to media and professional techniques used in digital illustration. GD majors and minors only. (Fee: \$50)
- VCD-1000 Graphic Design for Non-Majors**–Fa **3 hours**  
An introduction to graphic design, emphasizing the fundamentals of design and typography as applied to the development of effective print and web communication. (Fee: \$50)
- VCD-1200 Design Thinking**–Sp **2 hours**  
In this introductory course, students will explore why we design. Through a variety of projects, contextual research opportunities, reading, instruction, and collaboration, students will learn the core principles of the design discipline, design's role within—and its potential impact on—business and our community, and the ways designers develop innovative insights and compelling ideas that resonate deeply and authentically with ordinary people. (Fee: \$50)
- VCD-2000 History and Influences of Design**–Sp **3 hours**  
Survey of design from the 17th century to the present. The course highlights significant stages in the development and pivotal influences of design including technological advances, individual works, key movements, schools of thought, and approaches relative to time(s) and culture(s). Crosslisted with IDES.
- VCD-2200 Typography**–Fa **3 hours**  
An introduction to the study of typography and its role in the structuring of visual language and its relationship to the discipline of graphic design. The course will examine the history of letter forms, their sources, and their influences and will provide opportunities for learning principles and guidelines for the effective use of type in visual communications for a variety of media and messages. Students will learn to structure intelligent, creative type solutions through classroom discussion, reading, research, and studio assignments, including editorial, promotional, and informational applications of typography. *Prerequisites: ART-1230 Two-Dimensional Design; VCD-1150 Digital Imaging: Adobe Illustrator.* GD Majors and minors only. (Fee: \$50)
- VCD-2400 Graphic Design I**–Sp **3 hours**  
An introduction to the study of graphic design with emphasis on using the principles of design to communicate information and ideas in visual form. The course will provide opportunities to learn principles of visual communication and steps in the design process necessary to produce effective design solutions. Learning will be achieved through classroom discussion, reading, research, and studio assignments that center on producing concepts for both printed and electronic forms of information design. *Prerequisites: VCD-2200 Typography; VCD-1100 Digital Imaging: Adobe Photoshop.* VCD majors and GD minors only. (Fee: \$50)
- VCD-2600 Web Design I**–Fa, Sp **3 hours**  
Students learn foundational concepts and skills for building usable and beautiful user-centered websites by exploring the differences between graphic design and interactive design, gaining experience with designing webpage layouts, and practicing the skills necessary for constructing and publishing web pages with HTML and CSS.
- VCD-2700 Scripting for Interactivity**–Sp **3 hours**  
Students are introduced to the disciplines of interaction design and front-end development and learn how to use current technologies and best practices to apply principles of interaction to achieve simple, user-centered, interactive effects on real-world projects. *Prerequisite: VCD-2600 Web Design I.* (Fee: \$50)
- VCD-3200 Portfolio I**–Sp **1 hour**  
This course will focus on developing professional presentation materials and communication skills required to present project work to design professionals and prospective employers. Previous project work will be refined along with additional project work necessary to emphasize interest in a particular area of specialization. Students will be required to develop a resume' and portfolio along with written communications 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. GD majors and minors only. (Fee: \$50)

**VCD-3400 Graphic Design II–Fa 3 hours**

An in-depth study of graphic design and its role in creating visual communication. Course work will examine methods of conducting and interpreting research, the development of strategy-driven concepts to formulate targeted design solutions, as well as the foundations of the branding process. The course will provide opportunities for developing conceptual and technical skills through class work and projects following specific communication models. *Prerequisites:* VCD-1150 *Digital Imaging: Adobe Illustrator*; VCD-1100 *Digital Imaging: Adobe Photoshop*; VCD-2400 *Graphic Design I*; VCD-3300 *Production Design I*; or permission of the instructor. GD majors and minors only. (Fee: \$50)

**VCD-3600 Web Design II–Fa 3 hours**

Students will learn advanced concepts and techniques in web design including visual design, navigation, usability, grid layout, scripting, coding, and other skills necessary to produce professional, visually enhanced media for delivery via the web. Students will use industry standards, including software, to develop websites and digital media that integrate motion, sound, and interactivity to add value and enhance the user experience for web-based advertising, marketing, and other communication needs. *Prerequisites:* VCD-2600 *Web Design I*.

**VCD-4400 Graphic Design III–Sp 3 hours**

A comprehensive study in developing strategy-based design concepts and solutions. This course will examine and utilize targeted market research in developing a design strategy to serve as a framework for developing targeted brand design concepts. The course will require students to develop each phase of the project into part of a comprehensive brand design presentation. *Prerequisites:* VCD-3300 *Production Design I*; VCD-3600 *Web Design II*; or permission of the instructor. (Fee: \$50)

**VCD-4300 Production Design II–Fa 3 hours**

An in-depth study of production methods and practices for application to 2-dimensional and 3-dimensional design concepts. *Prerequisites:* VCD-1150 *Digital Imaging: Adobe Illustrator*; VCD-1100 *Digital Imaging: Adobe Photoshop*; VCD-2400 *Graphic Design I*; VCD-3300 *Production Design I*; or permission of the instructor. (Fee: \$50)

**VCD-3700 3 hours****User Experience and Interface Design (UX/Int. Des.)–Fa, Sp**

Students will study the principles of user experience and interface design, including processes, research methods, and concept testing. They apply principles through conceptualizing, testing and prototyping real-world projects for websites, web applications, mobile applications, gaming consoles, and other emerging technologies. *Prerequisites:* VCD-1000 *Graphic Design for Non-majors*; VCD-2600 *Web Design I*; VCD-2400 *Graphic Design I*. (Fee: \$35)

**VCD-4200 Portfolio II–Sp 1 hour**

This course will focus on revising a portfolio package that demonstrates to prospective employers professional-level knowledge and abilities within a particular area of specialization. Additionally, students will develop professional written, verbal, and non verbal communication skills that will guide the transition from academia to the design industry. *Prerequisites:* VCD-3200 *Portfolio I and senior status*; or permission of instructor.

**VCD-4600 Web Design III–Fa 3 hours**

Student survey current trends and developments in the fields of user experience, web design, and interactive design and apply new knowledge and skills to create an experimental interactive project. *Prerequisite:* VCD-3600 *Web Design II*. (Fee: \$50)

**VCD-4700 Interactive Design Capstone–Sp 3 hours**

Students complete a capstone project that combines skills from previous classes. They will research, plan, conceptualize, prototype, test, develop, and implement a fully functional real-world interactive project. *Prerequisites:* VCD-3700 *User Experience and Interface Design*; VCD-4600 *Web Design III*. (Fee: \$50).

**VCD-4800 1-3 hours****Special Topics in Visual Communication–Fa, Sp**

This course will examine a topic of specialized interest within the field of visual communication design. Rotation of course content will be determined by faculty schedules and student interest. Actual contact hours would determine the amount of credit granted. *Prerequisites:* topic dependent and by permission of the instructor. (Fee: \$50)

**VCD-4900 0-6 hours****Visual Communication Design Internship–Fa, Sp, Su**

The graphic design internship will give the student an opportunity to gain actual on-the-job experience with professionals in the graphic design industry. This opportunity will allow students to gain insight into the professional practices and approaches to solving communication challenges for a variety of business models and client types. This experience will become a valuable asset in competing for an entry-level position upon graduation. CR/NC course.

## School of Biblical and Theological Studies Course Descriptions

### Bible and Theology — Applied Theology (BTAT)

**BTAT-2000 Introduction to Mission–Sp 3 hours**

Foundational concepts and concerns of mission today including definitions, mission theology, “calling,” mission ministries, qualifications, preparation, mission and the local church, the missionary family, the MK, short-term missions, mission agencies, the application process, and cultural adjustment. (Fee: \$25)

**BTAT-2350 Theological Foundations of Ministry–Fa 3 hours**

An examination of theological issues critical for the formation of a biblical philosophy of ministry, as well as a critical survey of historical developments in Christian educational ministries in light of those theological discussions.

**BTAT-2400 Personal Evangelism–Fa, Sp 3 hours**

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

**BTAT-2420 History of Mission–Fa 3 hours**

Survey of the history of the expansion of the church from apostolic times to World War II with attention to differing conceptions of the mission task and the strategies and lessons that may be learned for mission today.

**BTAT-2730 Church Business Administration–Sp 3 hours**

A study of the principles and procedures of the financial management of the local church organization. (Credit not applicable to meet business elective requirements.) Crosslisted with FIN-2730.

**BTAT-2920 3 hours****Scriptural Interpretations of Gender Issues and Roles–Fa**

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

- BTAT-3400 Biblical Care, Discipleship, and Counseling–Sp** **3 hours**  
This course introduces the principles, techniques, approaches, and tools used in the ministry of care, discipleship, and counseling. Biblical, theological, and ethical concerns in the ministry of soul care are discussed, and an overview of common counseling concerns is presented. It also considers various contemporary approaches to counseling and care in the church. These may include professional counseling programs, recovery ministries, discipleship care, and leadership of lay counseling ministries, among many others. The course format includes lecture, video, role play, and discussion.
- 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. (Fee: \$20)
- BTAT-3420 Introduction to Pastoral Ministry–Sp** **2 hours**  
This course provides broad overview of pastoral duties including presiding over weddings, funerals, and church services. In addition, such issues as the pastoral call, candidating, ordination, leadership, and family issues are also addressed.
- BTAT-3430 Ministerial Counseling–Fa** **3 hours**  
Building upon a biblical and theological foundation for biblical care, discipleship, and counseling, this course provides intermediate and advanced principles and practices of ministerial counseling. It provides an overview of the history, methods, and role of counseling within a modern ministry context. A biblical approach to common counseling problems involving both sin and suffering is addressed within Christian ministry (crisis, abuse, depression, addiction, etc.). It also discusses the role of counseling in encouraging and cultivating spiritual growth through discipleship relationships, including premarital counseling and providing biblical life wisdom. *Prerequisite: BTAT-3400 Biblical Care, Discipleship, and Counseling or permission of instructor.*
- BTAT-3450 Contemporary World Missions–Sp** **3 hours**  
Study of the development, methods, and problems of Christian missions since World War II. (Fee \$50)
- BTAT-3470 Cross-Cultural Ministry–Sp** **3 hours**  
Understanding culture, basic methods in researching culture, becoming competent in another culture, cross-culture communication, relevant to a mission ministry, and the practice of ministry contextualization. (Fee: \$130)
- BTAT-3480 Women's Communication for Ministry–Sp** **3 hours**  
A course designed to help women refine communication skills that will help them to articulate their beliefs effectively and further develop communication platforms in the areas of giving a testimony, leading a discussion, and expositing Scripture for various age groups. *Prerequisite: BTGE-1720 Spiritual Formation.*
- BTAT-3500 Text-Driven Preaching 1–Fa** **3 hours**  
Introductory course on the nature of preparing and delivering sermons shaped by Scripture's textual meaning. Emphasis is placed on moving from textual interpretation to skilled delivery to a contemporary audience. *Prerequisites: BTGE- 1720 Spiritual Formation; BTGE- 2730 Old Testament Literature; BTGE-2740 New Testament Literature; or permission of the instructor.*
- BTAT-3510 Introduction to Urban Ministry–Fa** **3 hours**  
An introduction to the principles and practices of urban ministry. Focus will be on developing a biblical view of the city as well as understanding the sociological, anthropological, and multi-cultural distinctives of the urban context. Attention will be given to particular urban issues such as ministering to the poor, developing an incarnational lifestyle, and authentic strategies for urban ministry. (Fee: \$75)
- BTAT-3730 Theology of Worship–Fa** **3 hours**  
This course explores the theology, history, and practice of Christian worship, with particular attention to how worship practices both reflect and shape theological commitments. Various elements of Christian worship will be examined in light of diverse cultural contexts and theological perspectives with the goal of enabling the student to plan appropriately and to lead worship in a particular ministry setting. *Prerequisites: BTGE-1720 Spiritual Formation; BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature.*
- BTAT-4300 Teaching Ministry of the Church–Fa** **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)
- BTAT-4510 Advanced Urban Ministry–Sp** **3 hours**  
Continuation of the earlier Urban Ministry course, including global urban issues, particular challenges in world-class cities, sociology of the city, and its implications for mission in the city. *Prerequisite: BTAT-3510 Introduction to Urban Ministry.* (Fee: \$75)
- BTAT-4560 Text-Driven Preaching 2–Fa** **3 hours**  
Advanced course on the nature of preparing and delivering sermons shaped by Scripture's textual meaning. Emphasis is placed on moving from textual interpretation of various biblical genres to skilled delivery to a contemporary audience. *Prerequisite: BTAT-3500 Text-Driven Preaching 1 or permission of the instructor.*
- 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 BHT-XXXX; one applied theology elective BTAT-XXXX. Repeatable up to three times*
- BTAT-4720 Missionary Internship** **3–12 hours**  
Four to six weeks in a crosscultural context gaining experience in actual missions activity under the supervision of Bible faculty and a qualified missionary. This program is open to students in various majors. Capstone course. *Prerequisites: completion of at least two missions courses; approval of the Bible faculty. Repeatable up to 12 credit hours.*
- BTAT-4730 Pastoral Internship** **3–12 hours**  
A mentored and evaluated local church ministry experience under the direction of qualified pastoral staff. This is an opportunity to utilize and develop knowledge and skills from courses in a ministry context appropriate for student's interest and preparation. Capstone course. Repeatable to 12 hours. *Prerequisite: approval of the faculty of the School of Biblical and Theological Studies, senior academic status, completion of the following courses BTAT-3420 Introduction to Pastoral Ministry; BTAT-3430 Ministerial Counseling; BTAT-3500 Text-Driven Preaching 1; BTAT-4560 Text-Driven Preaching 2.*
- BTAT-4900 Independent Study in Applied Theology–Fa, Sp, Su** **1–3 hours**  
Students will investigate an area of pastoral ministry or missions, the latter including mission boards, methods, and places of service.
- BTAT-4950 Men and Women in Leadership–Fa** **3 hours**  
A complementary perspective of men and women providing leadership for the body of Christ within the current cultural milieu.
- BTAT-4990 Topics in Applied Theology–Fa, Sp** **1–3 hours**  
Investigation of special topics in Bible and theology, which have intrinsic worth and engage student interest. Permission of instructor required for non-majors.

**Bible and Theology — Biblical Languages (BTBL)**

**BTBL-2010** **3 hours**

**Introduction to Biblical Language Tools—Sp**

Learning the original language opens the Scriptures to serious students of the Bible in exciting ways. This course is an introduction to the basic principles of phonology (sounds), morphology (forms), and grammar of biblical Greek and Hebrew with a focus on gaining proficiency to be able to use digital language tools such as Logos and the New English Translation Bible. (Fee \$150)

**BTBL-2510, 2520** **4 hours/semester**

**Elementary Greek I and II—Fa, Sp**

Basic elements of the Greek language. Careful attention is given to grammar, syntax, vocabulary, and the reading of selected portions of the Greek New Testament.

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

**Elementary Hebrew I and II—Fa, Sp**

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

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

**Intermediate Greek I and II—Fa, Sp**

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

**BTBL-4110 Greek Syntax and Exegesis—Sp** **3 hours**

Exegetical study of the Greek New Testament, focusing on the grammatical and syntactical issues of specific passages. The course provides the opportunity for students to develop their own exegetical skills in working with the Greek text of the New Testament and to grow in their ability to preach and teach expository messages on the Bible. *Prerequisites: BTBL-3510 Intermediate Greek I.*

**BTBL-4510 Readings in New Testament Greek—Sp** **1 hour**

Through the translation of a wide variety of Greek texts primarily from the New Testament period, this course reviews and strengthens foundational concepts and skills for the study of Koine Greek. *Prerequisites: BTBL-3510 Intermediate Greek I (even years).*

**BTBL-4900** **1-3 hours**

**Independent Study in Biblical Language—Fa, Sp, Su**

The student will translate and/or exegete a Scripture passage or investigate advanced grammar and syntax.

**BTBL-4990 Topics in Biblical Languages—Fa, Sp** **1-3 hours**

Investigation of special topics in Bible and theology that have intrinsic worth and engage student interest. *Prerequisites: permission of instructor required for non-majors.*

**Bible and Theology — Biblical Studies (BEBS/BTBS)**

**BEBS-4910 Seminar in Bible—Sp** **2 hours**

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

**BTBS-1000 Introduction to Biblical Studies—Fa** **1 hour**

This course will introduce the student to the field of biblical studies and related career opportunities. This will provide an overview of the major and the various complementary minors, introduce the various areas of study and related skills, survey career possibilities, and aid the student in determining his or her fit with the field. (Fee: \$35)

**BTBS-2020 Biblical Research Methods—Fa** **1 hour**

The student will learn both how to conduct research and how to produce a research paper, the contents and style of which comply with generally accepted standards held by biblical scholars. In addition, the student will demonstrate these skills by producing a research paper that proposes the student's plan for fulfilling the program's senior-seminar capstone requirement. (odd years)

**BTBS-3400 Bible Backgrounds—Sp** **3 hours**

An introduction to the world of the Bible including the historical context, geographical setting, and cultural milieu. These will be accomplished through a survey of Ancient Near Eastern backgrounds, a survey of the main geographical features of Israel and the Fertile Crescent, and a survey of Intertestamental literature. *Prerequisites: BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature.*

**BTBS-3410 Biblical Archaeology I—Sp** **2 hours**

An introduction to biblical archaeology and the historical and cultural backgrounds of the Old and New Testaments. (even years)

**BTBS-3420 Biblical Archaeology II—Su** **1 hour**

An introduction to the archaeology of the Old and New Testaments and the historical and cultural background of the Bible on a field trip to Europe. It will also introduce the historical and cultural aspects of European Christianity. (Fee: Not to exceed \$3,000) (even years)

**BTBS-4310 Hermeneutics—Fa** **3 hours**

A study of the theory and related practice of the roles of author, reader, and text toward the end of authoritative interpretation and contextualization of the Bible.

**BTBS-4850 Senior Seminar—Sp** **3 hours**

The senior seminar is a reading and writing intensive course dealing with key aspects of biblical studies. Students will meet with the appointed biblical studies faculty for written presentations and discussion of guided readings in classical and contemporary studies in the discipline. *Prerequisites: senior status.*

**Bible and Theology — Christian Ministry (BTCM)**

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

An introduction to the ministries majors provided within the School of Biblical and Theological Studies (youth ministries, Christian education, or missions). The course will provide an overview of the program, survey career opportunities in Christian ministry, and introduce the student to significant people and resources in the field, on the campus, and in the community. Credit/no credit.

**BTCM-2100 Wilderness Ministry** **3 hours**

See the Department of Kinesiology and Allied Health course description for ESSE-2100 Wilderness Ministry. Credit/no credit. (Fee: \$340)

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

The course will examine the status of contemporary youth ministries, including a survey of various models of ministry. Foundational personal issues for the professional Christian minister will be explored, including a definition of "success" in youth ministries, and the knowledge, skills, heart, and character necessary for one to lead such ministries successfully.

**BTCM-2400 Interpreting and Teaching the Bible—Fa** **6 hours**

Principles for interpreting, organizing, and presenting the biblical text, and a survey of learning theory are examined to provide a framework for effective lesson preparation in light of the characteristics and needs of students. *Prerequisite: BTGE-1720 Spiritual Formation.*

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

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

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

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

**BTCM-3510 Small Group Ministry–Fa 3 hours**

Study of the theory and practice of the small group process in ministry. Emphasis will be given to the formulation and maintenance of small groups. Emphasis placed on how evangelism and spiritual maturity can be fostered by the small group environment.

**BTCM-3520 Counseling and Mentoring Women–Fa 3 hours**

Study of the distinctives of biblical counseling specifically applied to counseling women, the mandate and skill of mentoring woman to woman, and biblical responses to life struggles that are specific to women. Crosslisted as PSYCH.

**BTCM-3530 Contemporary Ministry to Women and Girls–Sp 3 hours**

Study of women today who are impacting the Church and edifying the body of Christ through various ministry opportunities. The course also includes a survey of current and potential full-time, part-time and volunteer opportunities for women, concluding with the development of each student's own "dream ministry." (Fee: \$10)

**BTCM-3540 Women in Church History–Fa 3 hours**

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

**BTCM-3680 Children's Ministries–Fa, Sp 4 hours**

Principles from Scripture are examined to prepare a biblical philosophy for ministry to children in light of developmental characteristics and contemporary sociological factors. Students are equipped to utilize creative, interactive strategies for teaching the Bible and to develop effective age-appropriate ministry programs. Course consists of three weekly class sessions and a two-hour teaching lab. *Prerequisites:* BTCM-2400 *Interpreting and Teaching the Bible*; major or minor status or permission of the instructor.

**BTCM-3685 Children's Ministries for Non-Majors–Fa, Sp 3 hours**

Principles from Scripture are examined to prepare a biblical philosophy for ministry to children in light of developmental characteristics and contemporary sociological factors. Students are equipped to utilize creative, interactive strategies for teaching the Bible and to develop effective age-appropriate ministry programs. Course consists of three weekly class sessions but does not include the teaching lab.

**BTCM-3700 Campus Ministries–Sp 4 hours**

Principles from Scripture are examined to prepare a biblical philosophy for ministry to junior high and senior high youth in light of developmental characteristics and contemporary sociological factors. Students are equipped to utilize creative, interactive strategies for teaching the Bible and to develop effective age-appropriate ministry programs. Course consists of three weekly class sessions and a two-hour teaching lab. *Prerequisites:* BTCM-2400 *Interpreting and Teaching the Bible*; major or minor status or permission of the instructor. (Fee: \$20)

**BTCM-3705 Campus Ministries for Non-Majors–Sp 3 hours**

Principles from Scripture are examined to prepare a biblical philosophy for ministry to junior high and senior high youth in light of developmental characteristics and contemporary sociological factors. Students are equipped to utilize creative, interactive strategies for teaching the Bible and to develop effective age-appropriate ministry programs. Course consists of three weekly class sessions but does not include the teaching lab. (Fee: \$20)

**BTCM-3720 Adult Ministries–Fa 4 hours**

Principles from Scripture are examined to prepare a biblical philosophy for ministry to adults in light of developmental characteristics and contemporary sociological factors. Students are equipped to utilize creative, interactive strategies for teaching the Bible and to develop effective age-appropriate ministry programs. Course consists of three weekly class sessions and a two-hour teaching lab. *Prerequisites:* BTCM-2400 *Interpreting and Teaching the Bible*; major or minor status or permission of the instructor.

**BTCM-3725 Adult Ministries for Non-Majors–Fa 3 hours**

Principles from Scripture are examined to prepare a biblical philosophy for ministry to adults in light of developmental characteristics and contemporary sociological factors. Students are equipped to utilize creative, interactive strategies for teaching the Bible and to develop effective age-appropriate ministry programs. Course consists of three weekly class sessions but does not include the teaching lab.

**BTCM-4100 Leadership of Christian Educational Ministries–Sp 3 hours**

An examination of models of leadership for Christian ministries, emphasizing practical issues such as developing mission and vision statements, creating effective leadership teams, and the strategic planning, implementation, and oversight of ministries. For youth ministry and Christian education majors, this must be the final course taken from the sequence of the required BTCM courses. *Prerequisites:* For CE and youth ministries majors: BTCM-2400 *Interpreting and Teaching the Bible*; BTCM-3680 *Children's Ministries*; BTCM-3700 *Campus Ministries*; BTCM-3720 *Adult Ministries*. No prerequisites for non-majors. (Fee: \$45)

**BTCM-4300 Teaching Ministry of the Church–Fa 3 hours**

Course focuses on the practice of expressing biblical and theological content in written documents and/or teaching curriculum for various audiences and settings. Attention is given to the variety of delivery methods for expositional teaching available within a church's ministry. (Crosslisted with BTAT)

**BTCM-4740 Internship in Christian Ministries 3–12 hours**

A mentored and evaluated ministry experience under the direction of a qualified field mentor. This is an opportunity to utilize and develop knowledge and skills from classes in a ministry context appropriate for student interest and preparation. Repeatable up to 12 hours. Capstone course. *Prerequisites:* 1) *Approval of the faculty of the School of Biblical and Theological Studies.* 2) *Senior academic status.* 3) *Completion of the following five courses: BTAT-2350 Theological Foundations of Ministry; BTCM-2400 Interpreting and Teaching the Bible; BTCM-3680, 3700, or 3720 Children's Ministries, Campus Ministries, or Adult Ministries; BTAT-2400 Personal Evangelism or BTAT-3410 Discipleship; and one course in ministry concentration area.* Credit/No Credit.

**BTCM-4750 Internship in Youth Ministries 3–12 hours**

A mentored and evaluated youth experience under the direction of a qualified youth minister. This is an opportunity to utilize and develop knowledge and skills from classes in a youth ministry context appropriate for student's interest and preparation. Capstone course. Repeatable to 12 hours. *Prerequisites:* 1) *Approval of the faculty of the School of Biblical and Theological Studies.* 2) *Senior academic status.* 3) *Completion of the following five courses: BTAT-2350 Theological Foundations of Ministry; BTCM-2200 Introduction to Youth Ministry; BTCM-2400 Interpreting and Teaching the Bible; BTCM-3700 Campus Ministries; BTAT-2400 Personal Evangelism or BTAT-3410 Discipleship.* Credit/No Credit.

**BTCM-4900 Independent Study in Christian Education–Fa, Sp, Su 1–3 hours**

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

**BTCM-4990 Topics in Christian Education**—Fa, Sp 1–3 hours

Investigation of special topics in Bible and theology, that have intrinsic worth and engage student interest. Permission of instructor required for non-majors.

**Bible and Theology — General Education (BTGE)****BTGE-1720 Spiritual Formation**—Fa, Sp, Su 3 hours

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

**BTGE-2730 Old Testament Literature**—Fa, Sp, Su 3 hours

Survey of the entire Old Testament, giving special attention to authorship, historical background, and the theme of each book with attention to literary genre. This study traces the history of the Hebrew nation from its origin to the time of Jesus Christ.

*Prerequisites:* BTGE-1720 *Spiritual Formation*.

**BTGE-2740 New Testament Literature**—Fa, Sp, Su 3 hours

Survey of the entire New Testament, including the historical background of the Inter-Testamental period, giving special attention to main events, the authorship and content of each book with attention to literary genre, and the unfolding of God's redemptive purpose through the Lord Jesus Christ. *Prerequisites:* BTGE-1720 *Spiritual Formation*, BTGE-2730 *Old Testament Literature*.

**BTGE-3755 Theology I**—Fa, Sp 3 hours

An introductory reflection on the theological task, the doctrines of the triune God, creation and humanity, revelation, and sin by means of a conversation between the Bible and classic and contemporary theological literature. This theological reflection will be brought to bear on contemporary challenges. *Prerequisite:* BTGE-1720 *Spiritual Formation*; BTGE-2730 *Old Testament Literature*; BTGE-2740 *New Testament Literature*.

**BTGE-3765 Theology II**—Fa, Sp 3 hours

An introductory reflection on the theological task, the doctrines of Christ, salvation, the Holy Spirit, the Church, and last things by means of a conversation between the Bible and classic and contemporary theological literature. This theological reflection will be brought to bear on contemporary challenges with a focus on developing the students' practice of theological thinking. *Prerequisite:* BTGE-1720 *Spiritual Formation*; BTGE-2730 *Old Testament Literature*; BTGE-2740 *New Testament Literature*; BTGE-3755 *Theology I*.

**Bible and Theology — History and Theology (BETH/BTHT)****BETH-4370 Soteriology and Christology**—Fa 3 hours

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

**BTHT-2500 Church History**—Fa 3 hours

An introduction to the history of Christianity covering the major people, movements, institutions, and events of the Church from its founding by Jesus Christ to the present. This course examines the unique ways Christianity has shaped and been shaped by its environment, the rich diversity of its expressions through the ages, and the significant purpose it fulfills in society and the world.

**BTHT-2910 Theological Research**—Fa, Sp 2 hours

This course is designed to survey the basic process, as well as selected special processes, germane to the field of theological research. *Prerequisite:* BTGE-1720 *Spiritual Formation*.

**BTHT-3340** 3 hours**Christian Theology 1: Bible, Trinity, God the Father**—Fa

Study of the doctrines of the Scripture and the triune God, with special emphasis on God the Father. The related biblical and historical material along with contemporary discussions will be considered. Ministry implications of the doctrines will garner attention. *Prerequisites:* BTGE-3755 *Theology I* or permission of the instructor.

**BTHT-3350** 3 hours**Christian Theology 2: God the Son and God the Spirit**—Sp

Study of the persons and work of both Christ and the Holy Spirit. The related biblical and historical material along with contemporary discussions of the doctrines will be considered. Ministry implications of the doctrines will garner attention. *Prerequisite:* BTGE-3765 *Theology II* or permission of the instructor.

**BTHT-3360** 3 hours**Christian Theology 3: Humanity, Angels, and Salvation**—Fa

Study of the nature of humans, heavenly beings, and God's saving work from election through final consummation. The related biblical and historical material along with contemporary discussions of the doctrines will be considered. Ministry implications of the doctrines will garner attention. *Prerequisite:* BTGE-3755 *Theology I* or permission of instructor.

**BTHT-3370** 3 hours**Christian Theology 4: The Church and Last Things**—Sp

Study of the nature of the church and its mission in the world until the consummation of all things. The ultimate end of individuals and the corporate bodies of the church and Israel will be covered. The related biblical and historical material along with contemporary discussions of the doctrines will be considered. Ministry implications of the doctrines will garner attention. *Prerequisite:* BTGE-3765 *Theology II* or permission of the instructor. (even years)

**BTHT-3500 Historical Theology**—Sp 3 hours

An examination of the development of Christian doctrine from the Apostolic Fathers to the modern era. The course will highlight key thinkers and theological developments in the patristic, medieval, Reformation and modern eras. Attention will be given to the reading and analysis of primary documents. *Prerequisites:* BTGE-2730 *Old Testament Literature*, BTGE-2740 *New Testament Literature*, and BTHT-2500 *Church History*.

**BTHT-3720 Spiritual Formation II**—Fa 3 hours

This course will develop a biblical theology of spiritual formation, explore alternative models of spiritual formation, and engage students in personal and corporate study and practice of spiritual disciplines as informed by influential thinkers through the history of the Church. *Prerequisites:* BTGE-1720 *Spiritual Formation*; BTGE-2730 *Old Testament Literature*; BTGE-2740 *New Testament Literature*; major status or permission of instructor.

**BTHT-3740 Biblical Theology of Womanhood**—Sp 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.

**BTHT-3750 Historical Theology of Womanhood**—Fa 3 hours

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-4100 Biblical Theology—Fa, Sp 3 hours**

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.

**BTHT-4300 Global Theology—Sp 3 hours**

An introduction to the rise and nature of non-Western theologies along with an examination of the nature of theology and its relevance in contemporary contexts. (even years)

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

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

**BTHT-4900 1–3 hours**

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

Students will investigate a significant topic of theology of special interest with a view toward integration of knowledge. *Prerequisites:* BTGE-2730 *Old Testament Literature*; BTGE-2740 *New Testament Literature*; or permission of the instructor.

**BTHT-4990 Topics in Theology—Fa, Sp 1–3 hours**

Investigation of special topics in Bible and theology, which have intrinsic worth and engage student interest. Permission of instructor required for non-majors. *Prerequisites:* BTGE-2730 *Old Testament Literature*; BTGE-2740 *New Testament Literature*; or permission of the instructor.

**Bible and Theology — New Testament (BENT/BTNT)**

**BENT-3110 Jesus and the Gospels—Fa 3 hours**

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

**BENT-3120 The Book of Acts—Fa 3 hours**

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

**BENT-4110 Romans and Galatians—Sp 3 hours**

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

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

Exposition of 1 and 2 Corinthians with attention given to their historical backgrounds, their teachings, and the integrity of Pauline apostleship. *Prerequisites:* BTGE-2730 *Old Testament Literature*; BTGE-2740 *New Testament Literature*; or permission of the instructor. (even years)

**BTNT-3110 New Testament 1: Synoptic Gospels—Fa 3 hours**

Study of the canonical texts of the Gospels of Matthew, Mark, and Luke. Attention is also given to the historical, theological, and literary structural considerations for the books. Drawing on the texts, contemporary implications will also be addressed. *Prerequisite:* BTGE-2740 *New Testament Literature* or permission of the instructor.

**BTNT-3120 3 hours**

**New Testament 2: Acts and New Testament Epistles—Sp**

Study of the canonical texts of Acts, Hebrews, James, 1 and 2 Peter, and Jude. Attention is also given to the historical, theological, and literary structural considerations for the books. Drawing on the texts, contemporary implications will also be addressed. *Prerequisite:* BTGE-2740 *New Testament Literature* or permission of the instructor.

**BTNT-3130 New Testament 3: Pauline Literature—Fa 3 hours**

Study of the canonical texts of Romans, 1 and 2 Corinthians, Galatians, Ephesians, Philippians, Colossians, 1 and 2 Thessalonians, 1 and 2 Timothy, Titus, and Philemon. Attention is also given to the historical, theological, and literary structural considerations for the books. Drawing on the texts, contemporary implications will also be addressed. *Prerequisite:* BTGE-2740 *New Testament Literature* or permission of the instructor. (even years)

**BTNT-3140 3 hours**

**New Testament 4: Johannine Literature—Sp**

Study of the canonical texts of the Gospel of John, 1–3 John, and Revelation. Attention is also given to the historical, theological, and literary structural considerations for the books. Drawing on the texts, contemporary implications will also be addressed. *Prerequisite:* BTGE-2740 *New Testament Literature* or permission of the instructor.

**BTNT-4900 1–3 hours**

**Independent Study in New Testament—Fa, Sp, Su**

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

**BTNT-4990 Selected Studies in the New Testament 1–3 hours**

Selected studies in a New Testament book or specific grouping of books. Repeatable with different books or groupings. *Prerequisites:* BTGE-2740 *New Testament Literature*; or permission of instructor.

**Bible and Theology — Old Testament (BEOT/BTOT)**

**BEOT-3110 Pentateuch—Fa 3 hours**

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

**BEOT-3140 Psalms—Fa 3 hours**

Examination of the book of Psalms with special attention given to the various types of psalms and their application to life. *Prerequisite:* BTGE-2730 *Old Testament Literature*; BTGE-2740 *New Testament Literature* or permission of the instructor.

**BEOT-3150 Wisdom Literature—Sp 3 hours**

Examination of the books of Job, Proverbs, Ecclesiastes, and Song of Solomon. Special attention is given to their literary qualities and practical applications for today. *Prerequisite:* BTGE-2730 *Old Testament Literature*; BTGE-2740 *New Testament Literature*; or permission of the instructor.

**BTOT-3110 Old Testament 1: Pentateuch—Fa 3 hours**

Study of the canonical texts of Genesis, Exodus, Leviticus, Numbers, and Deuteronomy. Attention is also given to the historical, theological, and literary structural considerations for the books. Drawing on the texts, contemporary implications will also be addressed. *Prerequisite:* BTGE-2730 *Old Testament Literature* or permission of the instructor.

**BTOT-3210 Old Testament 2: Former Prophets—Sp 3 hours**

Study of the canonical texts of Joshua, Judges, 1 and 2 Samuel, and 1 and 2 Kings. Attention is also given to the historical, theological, and literary structural considerations for the books. Drawing on the texts, contemporary implications will also be addressed. *Prerequisites:* BTGE-2730 *Old Testament Literature* or permission of the instructor.

- BTOT-3310 Old Testament 3: Latter Prophets–Fa 3 hours**  
Study of the canonical texts of Isaiah, Jeremiah, Ezekiel, Hosea, Joel, Amos, Obadiah, Jonah, Micah, Nahum, Habakkuk, Zephaniah, Haggai, Zechariah, and Malachi. Attention is also given to the historical, theological, and literary structural considerations for the books. Drawing on the texts, contemporary implications will also be addressed. *Prerequisites: BTGE-2730 Old Testament Literature; or permission of the instructor.*
- BTOT-3410 Old Testament 4: Writings–Sp 3 hours**  
Study of the canonical texts of Psalms, Job, Proverbs, Ruth, Song of Solomon, Ecclesiastes, Lamentations, Esther, Daniel, Ezra, Nehemiah, and 1 and 2 Chronicles. Attention is also given to the historical, theological, and literary structural considerations for the books. Drawing on the texts, contemporary implications will also be addressed. *Prerequisite: BTGE-2730 Old Testament Literature; or permission of the instructor.*
- BTOT-4900 1–3 hours**  
**Independent Study in Old Testament–Fa, Sp, Su**  
Students will investigate a significant topic or a Scripture passage of special interest with a view toward integration of knowledge.
- BTOT-4990 1–3 hours**  
**Selected Studies in the Old Testament–Fa, Sp**  
Selected studies in an Old Testament book or specific grouping of books. Repeatable with different books or groupings. *Prerequisites: BTGE-2730 Old Testament Literature or permission of instructor.*
- Bible and Theology — Philosophy and Apologetics (BTPA)**
- BTPA-2200 Introduction to Philosophy–Fa, Sp 3 hours**  
Survey of the principle issues in Western philosophy, covering such areas as epistemology, metaphysics, aesthetics, and the major systems of philosophy.
- BTPA-2240 Logic–Fa 3 hours**  
Study of the principles of correct and fallacious reasoning involved in traditional logic and modern logic.
- BTPA-2250 Ethics–Fa 3 hours**  
Study and evaluation of the major theories of goodness, obligation, and motive and the development of a consistent Christian ethical system, together with the application of ethical theories to contemporary moral problems.
- BTPA-2260 World Religions–Fa, Sp 3 hours**  
An introduction to the teachings and practices of the major world religions along with a Christian response to these religions.
- BTPA-3240 Epistemology–Fa 3 hours**  
Study of the nature, sources, types, tests, and limits of human knowledge. *Prerequisite: BTPA-2200 Introduction to Philosophy.*
- BTPA-3250 Philosophy of Religion–Sp 3 hours**  
Analysis of the major philosophical problems relating to religion as these have arisen in the modern intellectual environment. *Prerequisite: BTPA-2200 Introduction to Philosophy.*
- BTPA-3260 Symbolic Logic–Sp 3 hours**  
Study of systems of natural deduction (including metatheoretic proofs and methods) in propositional logic, first-order logic, and modal logic with emphasis on assessing arguments in natural language. *Prerequisite: BTPA-2240 Logic; or MATH-2210 Logic and Methods of Proof; or permission of instructor.*
- BTPA-3280 Metaphysics–Sp 3 hours**  
Study of selected topics in metaphysics, including the mind-body problem, substance, qualities and universals, identity, space and time, causation, and freedom and determinism. *Prerequisite: BTPA-2200 Introduction to Philosophy. (odd years)*
- BTPA-3300 Christian Evidences and Apologetics–Fa 3 hours**  
Study of the basis for, and the nature of, evidence for Christianity. Emphasis on biblical revelation and its use in the defense and confirmation of the Gospel. *Prerequisite: BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature; or permission of the instructor.*
- BTPA-3310 3 hours**  
**History of Ancient and Medieval Philosophy–Fa**  
Survey of men and movements in Greek and Christian philosophy from Thales to Aquinas. Selected, representative writings of the philosophers will be read. *Prerequisite: BTPA-2200 Introduction to Philosophy. (odd years)*
- BTPA-3320 History of Modern Philosophy–Sp 3 hours**  
Study of the principle philosophers from Descartes through Nietzsche. The development of rationalism and empiricism with the Kantian synthesis and its results will be emphasized. *Prerequisite: BTPA-2200 Introduction to Philosophy. (odd years)*
- BTPA-3330 19th Century Philosophy–Fa 3 hours**  
Survey of significant European and American philosophies of the 19th and early 20th centuries from Hegel to the first World War. Special attention will be given to Hegelianism, early existentialism, pragmatism, and analytic philosophy. *Prerequisite: BTPA-2200 Introduction to Philosophy. (even years)*
- BTPA-3340 Current Philosophical Developments–Sp 3 hours**  
Survey of significant European and American philosophies of the 20th century, focusing specifically on developments from the 1960s to the present. (even years)
- BTPA-3400 Philosophy of Law and Economics 3 hours**  
Course will clarify the conceptual structures that underlie both law and economic analysis. Explores the connections between ethics and legal theory and practice and economics. (odd years)
- BTPA-3500 Current Religious Movements–Sp 3 hours**  
Survey of new religious movements with attention given to their history, beliefs, and practices, as well as to critical assessment and appropriate response. *Prerequisite: BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature; or permission of the instructor.*
- BTPA-4030 Philosophy and Literature–Sp 2 hours**  
Course will be divided into two sections. The first will focus on philosophy of literature, exploring literary theory, hermeneutics, and literature as a work of art. The second part of the course will examine philosophy in literature, looking at the ways in which philosophical ideas are expressed through the medium of literature. (even years)
- BTPA-4250 Philosophy of Science 2 hours**  
Critique of the concepts, methods, and arguments of the various sciences, as well as an analysis of the theological and philosophical underpinnings of science, which aims to demarcate science from pseudo-science, evaluate contemporary thought in the limits of science, and evaluate the relations between science, human values, religion, and technology. (odd years)
- BTPA-4260 Philosophy of Art–Sp 2 hours**  
Study of the nature of art and the aesthetic experience. Possible topics include the concept of creativity, the nature and value of the work of art, the function of art, the truth in art, the relation of art and society, and the aesthetic attitude and aesthetic values, such as beauty and the philosophy of art. (Fee: \$10) (odd years)
- BTPA-4290 Topics in Philosophy–Sp 1–3 hours**  
Various topics offered as interest demands. For majors in philosophy. Permission of instructor required for non-majors and minors.
- BTPA-4900 1–3 hours**  
**Independent Study in Philosophy–Fa, Sp, Su**  
The student will investigate a significant topic of philosophy of special interest with a view toward integration of knowledge.

**BTPA-4910 Seminar in Philosophy–Fa 2 hours**

Senior course in which students will demonstrate their knowledge of philosophy and the integration of philosophy with Scripture and the liberal arts. This will be accomplished through guided research, critical thinking, and demonstration of oral and written skills. Course will be taken during the year immediately prior to graduation. Capstone course. Credit/no credit.

## School of Business Administration Course Descriptions

### Accounting (ACCT)

**ACCT-2110 Principles of Accounting I–Fa, Sp 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–Sp 3 hours**

A study of the flow of information through the accounting system, emphasizing systems analysis and design, internal controls, and computer applications in the business environment. *Prerequisites:* ACCT-2120 Principles of Accounting II; ITM-1500 Information Technology for Business; junior status.

**ACCT-3170 Managerial Accounting–Sp 3 hours**

Principles of industrial and distribution cost accounting, job order and process cost systems, and standard costs. *Prerequisite:* ACCT-2120 Principles of Accounting II.

**ACCT-4110 Federal Income Taxes–Fa 3 hours**

Examines the computation of federal income tax liabilities for individuals and sole proprietorships. Typical course content includes income, exclusions, exemptions, deductions, credits, property transactions, and tax accounting methods. Introduces basic principles of tax research and planning. *Prerequisite:* ACCT-2120 Principles of Accounting II.

**ACCT-4120 Auditing–Fa 3 hours**

A study of auditing standards and related auditing procedures. Topics include evaluation of audit evidence, professional responsibilities, and auditors' reports and opinions. *Prerequisite:* ACCT-3120 Intermediate Financial Accounting II.

**ACCT-4130 Advanced Financial Accounting–Sp 3 hours**

A study of consolidated financial statements, foreign exchange, estates and trusts, branch accounting, and related problems. *Prerequisite:* ACCT-3120 Intermediate Financial Accounting II.

**ACCT-4150 Government and Nonprofit Accounting–Fa 3 hours**

Accounting and reporting principles, standards, and procedures applicable to nonprofit organizations. *Prerequisite:* ACCT-3120 Intermediate Financial Accounting II or permission of instructor.

**ACCT-4170 Advanced Managerial Accounting–Sp 3 hours**

Advanced topics in accounting for manufacturing companies and the use of the computer in cost accounting applications. *Prerequisite:* ACCT-3170 Managerial Accounting.

**ACCT-4190 CPA Review–Sp 3 hours**

Comprehensive review of the application of accounting principles, using specific problems and development of approaches to problem solving. Useful as intensive preparation for the CPA examination. *Prerequisite:* ACCT-3120 Intermediate Financial Accounting II.

**ACCT-4210 Taxation of Business Entities–Sp 3 hours**

An examination of the tax provisions governing C Corps, S Corps, partnerships, and estates. Analyzes international and multi-state taxation of corporations. *Prerequisite:* ACCT-4110 Federal Income Taxes.

**ACCT-4220 International Accounting–Sp 3 hours**

This course offers information about global accounting diversity and the reasons for it. International Financial Reporting Standards (IFRS) are discussed along with the history of international standard development. Foreign currency exchange rates, transactions, and hedging are covered. Students also do research into accounting in multinational corporations. *Prerequisites:* ACCT-2110 Principles of Accounting I, ACCT-2120 Principles of Accounting II.

**ACCT-4810 Seminar in Accounting–Sp 1 hour**

A forum for discussion of contemporary topics and issues in accounting. Current issues will be chosen from topics in financial and managerial accounting, auditing, tax, and governmental and nonprofit accounting. *Prerequisites:* ACCT-3170 Managerial Accounting; ACCT-4110 Federal Income Taxes; ACCT-4120 Auditing.

### Business Administration (BUS)

**BUS-1000 The Business Profession–Fa, Sp 2 hours**

Provides a broad and comprehensive introduction to the field of business and encourages students to discover their calling to ministry in the marketplace. Includes an introduction to the academic requirements of the program and provides opportunity for practical experience in the field of business. (Fee \$25)

**BUS-2100 Business Communication–Fa, Sp 3 hours**

Instruction for writing business letters, memos, email, and business reports. Oral business presentations, group collaboration, and the communication process in general are also discussed. *Prerequisite:* ENG-1400 Composition.

**BUS-2110 Statistics I–Fa, Sp 2 hours**

An introduction to statistical methods used in business decision making, including descriptive statistics, probability, probability distributions, estimation, and hypothesis testing. *Prerequisite:* GMTH-1020 College Algebra.

**BUS-2120 Statistics II–Fa, Sp 2 hours**

An extension of Statistics I to include tests of hypothesis, analysis of variance, chi-square, simple and multiple regression models. *Prerequisite:* BUS-2110 Statistics I.

**BUS-2150 Statistics for Business–Fa, Sp 3 hours**

An introduction to statistical methods used in business decision making including descriptive statistics, probability, probability distributions, interval estimation, hypothesis tests involving variances, analysis of variance, ch-square tests, F-tests, simple and multiple regression models, model building, and time series. *Prerequisites:* GMTH-1020 College Algebra.

**BUS-2180 Business Law I**–Fa, Sp **3 hours**

Examines the legal environment in which business operates. The course begins by surveying various sources and law and related ethical principles, and the structure and function of the judicial system. The remainder of the course addresses substantive areas of law, typically including torts, contracts, warranty and consumer protection, agency and employment, business entities, antitrust, intellectual property, and environmental law.

**BUS-3000 The Business Experience**–Fa, Sp **1 hour**

This course is to prepare the business student to transition into the work world upon graduation. Topics and experiences include: résumé writing, interviewing, networking, internships, and business etiquette. (Fee \$25).

**BUS-3150 Operations Analysis**–Fa, Sp **3 hours**

Introduces mathematical methods of decision analysis. Topics include probability, forecasting, decision under uncertainty, decision trees, inventory models, linear programming, and networks. *Prerequisites: BUS-2150 Statistics for Business.*

**BUS-3180 Business Law II**–Sp **3 hours**

Continues the study of the legal environment in which business operates, with particular focus on topics covered on the CPA exam. Typical course content includes sales, negotiable instruments, secured transactions, bankruptcy, partnerships, securities regulation, real and personal property, wills and trusts, and insurance. *Prerequisite: BUS-2180 Business Law I.*

**BUS-3280** **3 hours****Integrated Business Core Practicum**–Fa

In this course, students will apply concepts from the corequisite courses in which they are enrolled to their own start-up business ventures and to community service projects. Students in the class will form a 30- to 35-person company. Each company will develop a plan of organization to form and operate a business for the semester, as well as an organizational and operating plan to complete a community service project. *Prerequisites: ITM-1500 Information Technology for Business; ITM-1510 Software Tools for Business; ACCT-2110 Principles of Accounting I; ACCT-2120 Principles of Accounting II; BUS-2150 Statistics for Business; BUS-2180 Business Law I; ECON-2330 Microeconomics; ECON-2340 Macroeconomics. Corequisites: MRKT-3600 Principles of Marketing; MGMT-3500 Principles of Organization and Management; FIN-3710 Principles of Finance (blocked courses).*

**BUS-3400** **1–3 hours****Independent Study in Business Administration**–Fa, Sp, Su

Research in problems of accounting, management information systems, general business, economics, finance, management, or marketing.

**BUS-3410 Topics in Business**–Fa, Sp, Su **1–3 hours**

A variety of courses are covered under this heading on an experimental basis. This allows the department to meet the changing needs of the students without formally adding or dropping courses. Crosslisted with ECON.

**BUS-3450 Business Internship** **3–12 hours**

A work-study program designed for junior and senior business administration majors to receive a variety of job-related experiences in a business environment. The program is arranged and administered by the department.

**BUS-3514** **3 hours****Entrepreneurial Ventures in E-commerce**–Sp

This course provides instruction and guidance on how to create and run a profitable, Internet-based business. Topics include reviewing intellectual property rights, designing a website to maximize revenue, developing an advertising and marketing plan for online businesses, sourcing start-up capital, utilizing analytics to test search engine optimization, and leveraging social media accounts to target consumers and grow the business. (even years)

**BUS-3910 International Business**–Fa, Sp **3 hours**

This course is a broad overview of how business is different in a global setting by introducing key concepts, terms, trends, theories and organizations. Each group will put these foundational principles into practice by developing a country analysis and business plan to launch a fast food restaurant into a new country. Additionally, students will consider how to use the principles of Business As Mission (BAM) to achieve spiritual objectives as well as profit. (Fee: \$25)

**BUS-4420** **2 hours****Business Ethics and Social Responsibility**–Fa, Sp

Ethics asks questions about what goals one should pursue and what actions are appropriate in attempts to achieve these goals. The course examines alternative frameworks for analyzing difficult situations. Social responsibility refers to business decision making linked to ethical values, compliance with legal requirements, and respect for people, communities, and the environment. Ultimately, the course will deal with how our biblical worldview defines and drives the choices we face in the business world. Open only to seniors in business administration. Must be taken at Cedarville University; transfer or transient credit for this course will generally not be accepted.

**Economics (ECON)****ECON-2110 Essentials of Economics**–Fa, Sp **3 hours**

The course provides an introduction to the essential principles of economics. These principles would include such areas as supply and demand, elasticity, productivity and cost analysis, economic efficiency, national income, the consumer price index, monetary and fiscal policy, business cycles, and economic performance. Course not applicable to any major from the School of Business Administration and also not open to students with credit for ECON-2330 Microeconomics and/or ECON-2340 Macroeconomics.

**ECON-2330 Microeconomics**–Fa, Sp **3 hours**

The area of economic inquiry that is concerned with the effect of human behavior on the conduct of affairs within rather narrowly defined units. It is the study of decision making regarding consumption, production, and exchange that is carried on by individual households and by business firms.

**ECON-2340 Macroeconomics**–Fa, Sp **3 hours**

The area of economic study that focuses on how human behavior affects outcomes in highly aggregated markets, such as the market for labor or for consumer products. It is a study of the behavior of the economy as a whole, including the study of economic phenomena such as interest rates, the price level and national income, and output and employment. *Prerequisite or corequisite: ECON-2330 Microeconomics or permission of instructor.*

**ECON-3310 Money and Financial Markets**–Sp **3 hours**

A study of money, banking, and monetary theory, with particular emphasis on international financial markets. *Prerequisite: ECON-2340 Macroeconomics or permission of instructor. Crosslisted with FIN-3310.*

**ECON-3335 Intermediate Microeconomics**–Fa **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. *Prerequisites: ECON-2330 Microeconomics; GMTH-1020 College Algebra; or permission of instructor.*

**ECON-3340 History of Economic Thought 3 hours**

Principal figures in the development of economic ideas and the contribution of each period of economic thought from the mercantilist to the present. *Prerequisite: ECON-2330 Microeconomics; or permission of instructor.*

**ECON-3345 Intermediate Macroeconomics–Sp 3 hours**

This course will expand on macroeconomic principles to provide an analytical framework for understanding business cycles and associated short run economic fluctuations, long-run correspondence with classical economic theory, as well as growth theory. Macroeconomic policy debates will be reviewed with the analytical tools developed. *Prerequisites: ECON-2340 Macroeconomics; GMTH-1020 College Algebra; or permission of instructor.*

**ECON-3350 Comparative Economic Systems–Fa 3 hours**

Analysis of different types of economic systems. Special emphasis is placed on centralized planning from both a theoretical and empirical perspective. Centralized economic planning is compared and contrasted with a free-market distribution of resources. Individual country case studies are included. *Prerequisite: ECON-2330 Microeconomics or permission of instructor.*

**ECON-3360 International Trade and Economics–Fa 3 hours**

A study of international economic theory and international trade policy. The economic basis of trade and factor mobility, the benefits of international trade, and the barriers to international trade flows will be examined. *Prerequisite: ECON-2330 Microeconomics or permission of instructor.*

**ECON-3375 Mathematical Economics–Sp 3 hours**

Mathematical Economics presents the mathematics required for studying economics at the graduate level. Mathematical concepts are developed in the context of economics and applications are drawn from a wide range of fields in economics including microeconomics, macroeconomics, and economic growth. The main focus of this course is on optimization; therefore the course will focus on single and multi-variable calculus techniques to provide tools to analyze economic problems. *Prerequisites: ECON-2330 Microeconomics; ECON-2340 Macroeconomics; ECON 3335 Intermediate Microeconomics; MATH-1710 Calculus I. (odd years)*

**ECON-3380 3 hours**

**Economic Development and Political Economy–Sp**

A study of the interaction of political and economic systems to produce economic development and growth of nation states. A framework for analysis of development is explored and applied to specific case studies of both industrial and developing economics that have recently undergone significant change. *Prerequisite: ECON-2330 Microeconomics; or permission of instructor.*

**ECON-3390 Public Finance–Fa 3 hours**

A consideration of the financing of local, state, and federal governments. Much attention is given to three functions of government: stabilization, distribution, and allocation. All major taxes that are present in the United States are studied as to structure, revenue gained, and present status. Crosslisted as PUAD. *Prerequisite: ECON-2330 Microeconomics; or permission of instructor. (even years)*

**ECON-3410 Topics in Business–Fa, Sp, Su 1–3 hours**

A variety of courses are covered under this heading on an experimental basis. This allows the department to meet the changing needs of the students without formally adding or dropping courses. Crosslisted with BUS.

**ECON-4110 Introduction to Econometrics–Sp 3 hours**

Econometrics is a set of research tools used to estimate and test economic relationships. The methods taught in this introductory course can also be employed in the business disciplines of accounting, finance, marketing, and management and in many social science disciplines. The aim of this course is to provide you with the skills helpful in filling the gap between being a student of economics and being a practicing economist. By taking this introduction to econometrics, you will gain an overview of how statistical techniques can increase understanding of how economic variables are related. *Prerequisites: ECON-2330 Microeconomics; ECON-2340 Macroeconomics; ECON 3335 Intermediate Microeconomics; GSS-3650 Quantitative Methodology or BUS-2100 Statistics for Business; MATH-1710 Calculus I. (even years)*

**End-User Information Systems (EUIS)**

**EUIS-1000 3 hours**

**Word Processing Concepts and Applications**

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

**EUIS-1010 3 hours**

**Presentation Graphics Concepts and Applications–Sp**

Designed to explain basic concepts of graphics software, give detailed information about the types of graphics that are available and when to use each type, demonstrate how to create each of the major types of graphics, and teach basic design concepts.

**EUIS-2010 3 hours**

**Spreadsheet and Database Concepts and Applications–Sp**

Designed to identify concepts and terminology used with electronic spreadsheets and to identify tasks that can be accomplished with spreadsheet software. The students will be able to use the computer to create, format, edit, store, retrieve, and print worksheets, graphs, and charts. The course will also introduce the student to database management systems. Fundamentals of database management concepts will be covered using a microcomputer database application package. Topics will include table design, query, maintenance, and reports. *Prerequisite: ITM-1510 Software Tools for Business.*

**EUIS-2200 Desktop Publishing 2 hours**

Writing, assembling, and designing publications commonly found in businesses, such as newsletters, brochures, reports, and promotional materials using PageMaker software.

**Finance (FIN)**

**FIN-1710 Personal Finance–Fa, Sp 3 hours**

This course is designed to educate and inform the undergraduate student about personal finance, with the view towards practical application, both currently and upon graduation. The course integrates principles of personal finance with biblical principles. Topics include: biblical stewardship, work, financial planning, budgeting, giving, taxation, use of credit, investments, asset protection, retirement and estate planning. (This course is a general elective course.)

**FIN-2730 Church Business Administration 3 hours**

A study of the principles and procedures of the financial management of the local church organization. (Credit not applicable to meet business elective requirements.) Crosslisted with BTAT-2730.

**FIN-3310 Money and Financial Markets–Sp 3 hours**

A study of money, banking, and monetary theory, with particular emphasis on international financial markets. *Prerequisite: ECON-2340 Macroeconomics or permission of instructor.* Crosslisted with ECON-3310.

**FIN-3710 Principles of Finance–Fa, Sp 3 hours**

A study of the theoretical and practical aspects of financial decision making. Topics include financial statement analysis, financial markets, risk and return, determinants of interest rates, time value of money, valuation of financial assets, cost of capital and capital budgeting, dividends, multi-national financial management, and financial planning and forecasting. *Prerequisites: ACCT-2110 Principles of Accounting I; BUS-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*

**FIN-3760 Financial Planning–Fa 3 hours**

This course provides an introduction to the field of personal financial planning. The course includes an overview of investments, income taxation, insurance, estate planning, retirement planning, and employee benefits. *Prerequisite: FIN-3710 Principles of Finance*

**FIN-3770 3 hours**

**Security Analysis and Portfolio Management–Fa**

The theory and practice of security analysis techniques and portfolio management objectives. Students research securities in order to make informed buy/sell recommendations and evaluate security and portfolio performance with a particular emphasis on common stocks. Students manage a funded portfolio. *Prerequisite: FIN-3730 Investments.* (Fee: \$50)

**FIN-4700 Seminar in Finance 1 hour**

A forum to discuss contemporary topics and issues in finance and provide guidance in areas of student career interest. *Prerequisites: ACCT-3120 Intermediate Financial Accounting II; FIN-3310 Money and Financial Markets; FIN-3710 Principles of Finance; FIN-3730 Investments.*

**FIN-4710 3 hours**

**Advanced Security Analysis and Portfolio Management Practicum–Sp**

An in-depth application of investment theory and techniques. Students research securities in order to make informed buy/sell recommendations and evaluate security and portfolio performance with a particular emphasis on common stocks. Students manage a funded portfolio. *Prerequisite: FIN-3770 Security Analysis and Portfolio Management.* Admission to this course is limited and requires instructor approval. (Fee: \$50)

**FIN-4715 Applied Portfolio Management–Fa, Sp 1 hour**

An in-depth application of investment theory and techniques. Students research securities in order to make informed buy/sell recommendations and evaluate security and portfolio performance with a particular emphasis on common stocks. Students manage a funded portfolio. Repeatable up to three times. *Prerequisite or corequisite: FIN-3730 Investments.* (Fee: \$20)

**FIN-4750 Financial Institution Management–Fa 3 hours**

This course takes an in-depth look at financial institution management and covers topics such as: types of financial institutions, asset and liability management, risks faced by financial institutions, ways of dealing with those risks, and the regulatory environment in which these institutions operate. *Prerequisite: FIN-3710 Principles of Finance.* (Fee: \$20)

**FIN-4770 Advanced Financial Management–Sp 3 hours**

An in-depth analysis of topics of concern to financial managers of modern corporations. Topics include capital budgeting, financial forecasting, working capital management, and valuation of merger and acquisition candidates. *Prerequisite: FIN 3710 Principles of Finance.*

**Information Technology Management (ITM)**

**ITM-1500 2 hours**

**Information Technology for Business–Fa, Sp**

This course will focus on understanding the broad nature of information technology and how it fits in today's business world. Students will learn the nature of information technology, its application, and unique business models, as well as how to manage technology from a business value perspective. Fundamentals of the industry, technologies, and application of that technology are developed. Students will experience the IT industry through practical exploration of its breadth and depth.

**ITM-1510 Software Tools for Business–Fa, Sp 2 hours**

This course emphasizes the use of software in a business environment. Students will develop a working knowledge of spreadsheet, database, and other software packages appropriate to the current business environment. (Fee: \$10)

**ITM-1900 Fundamentals of IT Management–Sp 3 hours**

This course is an introduction to the field of Information Technology Management (ITM) in the context of managing IT projects. Students will be introduced to computer programming concepts using a visual, software development environment. The course will then guide students through the process of managing a software development project from initial inception to final implementation. Specific topics covered in the course include: project planning, writing vision statements, identifying software requirements, prototyping, visual programming, and software testing.

**ITM-2100 Database Management–Fa 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. *Prerequisite: ITM-1510 Software Tools for Business.* (Fee: \$20)

**ITM-2300 Introduction to Programming–Sp 3 hours**

Intended as the first programming course for Information Technology Management (ITM) majors, this course will introduce the student to the process of programming and to the syntax and usage of the C# programming language. The programming assignments will encourage students to analyze problems in a logical, intentional, and structured manner so that they can develop well-constructed programs using structured and object-oriented programming techniques. *Prerequisite or Corequisite: ITM-1900 Fundamentals of IT Management* (Fee: \$20)

**ITM-3300****3 hours****Advanced Topics in Programming Languages–Fa**

This course covers advanced concepts in programming and programming languages using one or more programming languages. Topics include theories of program design and implementation, distributed architectures, business object frameworks, generics, collections, reflection, data binding, and web services. Students will apply course topics in a team project through the development of a distributed information system. *Prerequisite: ITM-2300 Introduction to Programming.* (even years) (Fee: \$20)

**ITM-3400 Data Communications and Networking–Fa 3 hours**

This course provides a study of the basic concepts of data communications and current networking technology. Topics include discussion of physical-layer considerations, higher-layer implications, and network operating systems. The concepts will be applied through a hands-on project of network design, implementation, and documentation. *Prerequisite: ITM-1900 Fundamentals of IT Management or permission of instructor.* (Fee: \$50)

**ITM-3450 IT Security and Risk Management–Sp 3 hours**

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. *Prerequisites: ITM 3400 Data Communications and Networking.*

**ITM-3500 Web Development–Fa 3 hours**

This course will expose students to the process of developing information systems for the World Wide Web using the ASP.NET and C# programming languages. The focus will be on the creation of web applications to support business processes. Topics include HTML, CSS, Model-View-Controller (MVC) design paradigm, LINQ, AJAX, and web services. *Prerequisites: ITM-2300 Introduction to Programming.* (even years) (Fee: \$20)

**ITM-3550 Enterprise Architecture–Sp 3 hours**

This course explores the design, selection, implementation, and management of enterprise IT solutions. The focus is on applications and infrastructure and their fit within the business. Students learn frameworks and strategies for infrastructure management, data/information architecture, distributed computing, middleware, legacy system integration, and emerging technologies. *Prerequisites: ITM-2300 Introduction to Programming.*

**ITM-3600 Business Process Management–Fa 3 hours**

In this course students will be introduced to key concepts and approaches to business process management and improvement. The course focuses on both understanding and designing business processes. Students will learn how to identify, document, model, assess, and improve core business processes. Students will be introduced to process design principles. The way in which information technology can be used to manage, transform, and improve business processes is also discussed. *Prerequisites: ITM-1500 Information Technology for Business..*

**ITM-3650 Enterprise Systems–Sp****3 hours**

This course is designed to provide students with an understanding of the theoretic and practical issues related to the application of enterprise systems within organizations. The main focus of this course is to demonstrate how enterprise systems integrate information and organizational processes across functional areas with a unified system comprised of a single database and shared reporting tools. The course includes an integrated project, which requires the application of conceptual and technical skills of students. *Prerequisite: ITM-2100 Database Management.* (even years)(Fee: \$50)

**ITM-4100 Advanced Database Design–Sp 3 hours**

This course is a systematic study of the use of databases in dynamically generated webpages in e-commerce systems. The course focuses on the integration of database management systems and other software such as CRM, ERP, and supply chain management systems in the design and development of scalable e-commerce systems. *Prerequisites: ITM-2100 Database Management; ITM-3500 Web Development.* (odd years) (Fee: \$20)

**ITM-4300 Advanced Topics in IT Management–Sp 3 hours**

This course heading covers a variety of Management Information Systems courses offered on a temporary basis. The dynamic nature of the field of MIS gives rise to the need to address recent changes in technologies, methods, and systems. (even years)

**ITM-4400 Systems Analysis and Design–Fa 3 hours**

This course provides an understanding of the duties of the systems analyst along with a presentation of philosophies, terminology, and techniques commonly used in the Systems Development Life Cycle. Topics such as business case development, project management, requirements modeling, data design, and user-interface design will be discussed. Students will apply their skills in the completion of an integrated, analysis and design project. *Prerequisite: ITM-2100 Database Management.*

**ITM-4450 IT Audit and Controls–Fa 3 hours**

This course introduces the fundamental concepts of the information technology audit and control function. The main focus of this course is on understanding information controls, the types of controls, and their impact on the organization, and how to manage and audit them. The concepts and techniques used in information technology audits will be presented. The challenge of dealing with best practices, standards, and regulatory requirements governing information and controls is addressed. *Prerequisite: ITM-3400 Data Communications and Networking.* (odd years) (Fee: \$50).

**ITM-4500 System Development–Sp 3 hours**

Students hone their skills of project management, analysis, design, database development, web development, end-user training, and documentation, as they work in teams to develop the project that was designed in the Systems Analysis and Design course. Test-driven development is introduced and used throughout the development process. This course is the second course in a two-course sequence that forms the senior capstone experience for IT Management majors in the Application Developer track. *Prerequisites: ITM 3500-Web Development; ITM-4400 System Analysis and Design.* (even years)

**ITM-4900 IT Strategy–Sp 3 hours**

This course explores the issues and approaches in managing the information technology function in organizations and how the IT function integrates, supports, and enables various types of organizational capabilities. The course focuses on developing an intellectual framework that will allow leaders of organizations to critically assess existing IT infrastructures and emerging technologies as well as how these enabling technologies might affect organizational strategy. Critical analysis of the alignment between IT and organizational strategies is discussed. Open only to seniors in information technology management. Capstone course. *Prerequisites: Open only to seniors in ITM who have completed all 1000-3000 level business courses.*

**Management (MGMT)****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.

**MGMT-3511 3 hours****Entrepreneurship and Small Business Strategy–Fa**

This course will focus on looking for, identifying, and evaluating business opportunities, then matching business models to take advantage of them. Content will include creativity, opportunity recognition, evaluation, cognitive processes of entrepreneurs, environmental scanning, entrepreneurial business models (strategy), and will introduce initial financial elements of opportunity evaluation. *Prerequisites: MGMT-3510 Entrepreneurship and Small Business Management*

**MGMT-3512 3 hours****Entrepreneurship and Small Business Finance–Fa**

This course will focus on the finance, accounting, and tax issues involved in operating a small business, entrepreneurial high growth firm, or family business. Content will include small business and high growth financial issues, managing cash flow, attracting financial resources, accounting issues such as the role of a forward-thinking accountant, setting up accounting systems that serve the firm strategy, and tax planning. It will also include financial elements of opportunity evaluation and exploitation as well. *Prerequisite: MGMT-3510 Entrepreneurship and Small Business Management.*

**MGMT-3513 3-12 hours****Entrepreneurship and Small Business Practicum–Fa, Sp**

This course will be a practicum for SB and E students to gain experience in a small business or entrepreneurial setting that is appropriate for their future goals. These experiences will be in the form of internships, shadowing entrepreneurs, working in a small business or entrepreneurial firm on significant projects or in significant roles, or consulting with these types of firms.

Due to the dynamic nature of opportunities provided by small business people and entrepreneurs, it can be taken, with the permission of the lead professor, at any time during the SB and E program. In addition, since each experience is unique, it can be taken more than once for up to 12 semester hours. *Prerequisite: Permission of instructor.*

**MGMT-3520 3 hours****Production and Operations Management–Sp**

Introduction to the concepts, methodologies, and application of production and operations management. Designed to develop problem-solving and decision-making skills to apply in the operations and production areas of the firm. Designed to develop an appreciation for the interaction of operations management with the management systems of organizations and the processes associated with "lean" thinking necessary to create value for the customer. *Prerequisites: ACCT-2120 Principles of Accounting II; BUS-2150 Statistics for Business; MGMT-3500 Principles of Organization and Management; or permission of instructor. (Fee: \$50)*

**MGMT-3530 Human Resources Management–Sp 3 hours**

An analysis of the principle functions, processes, and problems involved in the management of personnel policies; selection, training, promotion, compensation, and discharge of personnel; labor turnover, safety, health, and recreation. *Prerequisite: MGMT-3500 Principles of Organization and Management or permission of instructor.*

**MGMT-3550 Organizational Behavior–Fa 3 hours**

A study of the impact of human behavior within and upon the organizational structure. Emphasis is given to behavior as it relates to employment, absenteeism, employee turnover, productivity, human performance, and management. *Prerequisite: MGMT-3500 Principles of Organization and Management or permission of instructor.*

**MGMT-3560 Project Management–Fa 3 hours**

This course will lay a foundation for an understanding of project management principles. It will examine principles, processes, and tools project managers have developed to effectively manage and lead projects.

**MGMT-3570 International Management–Sp 3 hours**

Focuses on the principles of management in a global economy. Exporting and foreign direct investment are analyzed from the multinational perspective. Strategy, organizational structure, and control techniques are developed in a world environment. *Prerequisite: MGMT-3500 Principles of Organization and Management.*

**MGMT-3580 3 hours****Compensation and Benefits Management–Sp**

An introduction to the concepts, methodologies, and application of compensation and benefit programs within human resources. Designed to develop problem-solving and decision-making skills in the area of compensation and benefits. Students will also learn to develop "lean" thinking necessary to create value for stakeholders in organization through this human resources function. *Prerequisites: MGMT-3500 Principles of Organization and Management; MGMT-3530 Human Resources Management; or permission of instructor. (odd years)*

**MGMT-4510 Strategic Management–Fa, Sp 3 hours**

This capstone course requires the synthesis of the knowledge and skills gained through your previous business courses. Your group will complete a comprehensive situation analysis (SWOT), and then develop eight possible strategies for a publicly traded company—finally selecting one rationalized strategy, using an M&A tactic, and present to the class. Open only to seniors in business administration within 2 semesters of graduation. Must be taken at Cedarville University; transfer or transient credit for this course will generally not be accepted. Capstone course. *Prerequisites: FIN-3710 Principles of Finance; MGMT-3500 Principles of Organization and Management; MRKT-3600 Principles of Marketing.*



**MGMT-4520 Supply Chain Management–Fa 3 hours**

Introduces students to key concepts in supply chain design, planning, and operations. Typical content includes the supply chain strategic environment, designing appropriate networks, forecasting demand and supply, planning and managing inventories, sourcing and transporting products, supply chain coordination, and the impact of technology on supply chain management. Course methodology emphasizes application of concepts through case study, plant tours, and presentations. *Prerequisites: BUS-2150 Statistics for Business; MGMT-3520 Production and Operations Management.* (Fee: \$50)

**MGMT-4530 Industrial Relations Management–Fa 3 hours**

The interplay between market forces and institutional rules that determine the employment relationship. Labor history, the effects of changing public policies, trade unions, and collective bargaining are viewed from various international perspectives. *Prerequisites: MGMT-3500 Principles of Organization and Management.*

**MGMT-4540 Service Operations Management–Fa 3 hours**

An introduction to the concepts, methodologies, and applications in service operations. Designed to develop problem-solving and decision-making skills to apply in service firms. Students will also learn to develop “lean” thinking necessary to create value for customers in the service sectors. *Prerequisites: ACCT-2120 Principles of Accounting II, BUS-2150 Statistics for Business, MGMT-3500 Principles of Organization and Management.* (Fee: \$25) (odd years)

**MGMT-4550 Applied Leadership–Fa, Sp 3 hours**

This is an advanced course about managing people and organizations in the 21st century. It is intended for seniors who will soon face the challenge of leadership and influence in the workplace, in business and other disciplines. This course will integrate and apply what students need to meet the leadership challenge. *Prerequisite: MGMT-3500 Principles of Organizational Management; or permission of instructor.*

**MGMT-4560 Organizational Change and Development–Sp 3 hours**

This course focuses on the theories, concepts, processes, and tools of leading successful organizational change, as changes involve sensitivity to issues that arise at the individual, interpersonal, and institutional levels as well as building the organization’s capacity to both adapt to change and generate innovation. *Prerequisite: MGMT-3500 Principles of Organization and Management or permission of instructor.*

**MGMT-4570 Total Quality Management–Sp 3 hours**

This course expands on critical topics in the field of operations management, including the operations management strategy and tools and contemporary topics such as “Lean” techniques, value-stream mapping, and Fundamentals of Six Sigma. *Prerequisite: MGMT-3520 Production and Operations Management or permission of instructor.* (Fee: \$50)

**Marketing (MRKT)****MRKT-3600 Principles of Marketing–Fa, Sp 3 hours**

This course examines the marketing processes of businesses and other types of organizations from an analytical perspective. Special attention is placed on the marketing environment and the needs and behaviors of market segments as key drivers of marketing planning for positioning, product, pricing, distribution, and communication strategies and tactics. *Prerequisite: junior status or permission of instructor.*

**MRKT-3610 Sales/Sales Management Systems–Sp 3 hours**

Principles employed in the development, administration, and strategy of a sales force. Professional selling from a Christian perspective along with training, managing, compensating, and motivating a sales force. *Prerequisites: MGMT-3500 Principles of Organization and Management; MRKT-3600 Principles of Marketing.*

**MRKT-3630 Marketing Research–Sp 3 hours**

This course examines marketing research methods to understand how they generate different types of information relevant to the identification and solution of problems in marketing. Students will complete a research project that will teach them how to formulate marketing problems, design relevant studies, collect and analyze data, draw appropriate conclusions, and make recommendations that lead to sound marketing actions. *Prerequisite: BUS-2150 Statistics for Business; MRKT-3600 Principles of Marketing; MRKT-3650 Consumer Behavior.*

**MRKT-3650 Consumer Behavior–Fa 3 hours**

This course examines behavioral concepts and theories from psychology, sociology, anthropology, and economics. Primary focus is on identifying and/or creating consumer behavior models that inform marketing research and produce insights that guide appropriate marketing decision making and strategy development. *Prerequisite: MRKT-3600 Principles of Marketing.*

**MRKT-3660 Integrated Marketing Communications–Fa 3 hours**

This course represents the various ways in which an organization “voices” appropriate messages in response to the needs of the market. This course prepares students to create, implement, and assess effective communication strategies that coordinate traditional communication tools (advertising, sales, public relations, publicity, sales promotion, packaging) with more contemporary tools (electronic and social media) to accomplish specific communications and marketing objectives. *Prerequisite: MRKT-3600 Principles of Marketing.*

**MRKT-3670 Business-to-Business Marketing–Fa 3 hours**

Business-to-Business Marketing represents a much larger sector of economy and a greater number of jobs than consumer marketing. This course prepares students to effectively manage the unique strategic challenges of marketing goods and services to businesses, governments, and institutions. *Prerequisite: MRKT-3600 Principles of Marketing.*

**MRKT-3680 Nonprofit Marketing–Sp 3 hours**

Designed to acquaint the student with skills, abilities, and attitudes necessary to effectively implement marketing practice in nonprofit organizations. *Prerequisite: MRKT-3600 Principles of Marketing or permission of instructor.*

**MRKT-3690 Services Marketing–Sp 3 hours**

The vast majority of the global economy is based on service organizations that perform tasks on behalf of their customers. As compared to physical goods, services are uniquely challenging to market because the product 1) is largely intangible, 2) varies more in quality, 3) often involves customers in the production process, and 4) cannot be inventoried for future sale. This class is designed to help students prepare to meet those challenges in the marketplace. *Prerequisites: MRKT-3600 Principles of Marketing*

**MRKT-4610 Marketing Strategy–Sp 3 hours**

This is the culminating course for marketing majors. Its purpose is to build on what has been learned in prior marketing and business course work in order to form a comprehensive and integrated perspective of strategic marketing management. Students will apply their knowledge in broad-based contexts in order to deepen their ability to develop cohesive and effective strategic and tactical marketing plans. Must be taken at Cedarville University; transfer or transient credit for this course will generally not be accepted. *Prerequisites: senior status; twelve hours of marketing including MRKT-3600 Principles of Marketing, MRKT3630 Marketing Research, and MRKT-3650 Consumer Behavior.*

**MRKT-4620 International Marketing–Fa 3 hours**

The challenges of discovering and pursuing opportunities for effectively marketing goods and/or services globally are immense. This course involves an intensive investigation of the environmental factors (economic, financial, cultural, political and legal) that must be thoroughly understood and factored into the development of global marketing strategies. *Prerequisite: MRKT-3600 Principles of Marketing.*

**Sport Management (SMGT)****SMGT-1000 Sport Management Practicum–Fa, Sp 1 hour**

An on-campus sport management opportunity for students in the sport management major to be involved in a variety of activities compatible with athletic and recreational sporting events and experiences. A minimum of 30 hours is required for each practicum. *Prerequisites: SMGT-1350 Introduction to Sport Management; departmental approval. Credit/no credit.*

**SMGT-1350 Introduction to Sport Management–Fa 3 hours**

This course is designed to introduce the student to the dynamic nature of sport management and the potential for successful and satisfying career opportunities.

**SMGT-2100 Sport in Society–Sp 3 hours**

The purpose of this course is to expand the student's understanding of sport by investigating how sport and society interact. The relationship of sport to social variables, institutions, and social issues/problems will be examined. *Prerequisite: SMGT-1350 Introduction to Sport Management.*

**SMGT-2500 3 hours****Organizational Behavior in Sport–Fa, Sp**

This course will help students define and understand the concepts of management and leadership within sport organizations. There will be a focus upon the various skills, roles, and functions of sport managers. This course places sport organizations in the context of their environment and emphasizes the manager's role in adapting and reacting to changes in the environment. *Prerequisites: SMGT-1350 Introduction to Sport Management.*

**SMGT-2910 1 hour****Campus Sport Management Practicum–Fa, Sp**

This practicum provides the sport management major the opportunity to assist faculty members or staff on the Cedarville University campus with their sport management responsibilities for a required minimum of 30 hours total. *Prerequisite: Sophomore status or permission of the instructor.*

**SMGT-2920 1 hour****Recreation Management Practicum–Fa, Sp**

This practicum provides the sport management major the opportunity to assist a recreation management employee/volunteer with their responsibilities for a required minimum of 30 hours total. *Prerequisite: Sophomore status or permission of the instructor. (Fee \$30)*

**SMGT-3180 Legal Issues in the Sport Industry–Sp 3 hours**

This course will focus on the three major areas of law that have a direct impact on the management of sport: tort liability and risk management, contract law, and constitutional law. *Prerequisite: Junior status.*

**SMGT-3200 Facility Design and Management–Fa 3 hours**

This course includes planning and designing areas and facilities in sports and utilization of those facilities for sporting events. Topics will include maintenance, supervision, scheduling, planning, renovation, etc. *Prerequisite: Junior status or permission of the instructor. (Fee \$35)*

**SMGT-3300 Event Planning and Production–Sp 3 hours**

This course includes the process of planning for and organizing an event in sport. Organizing a plan for an event would include financial planning, risk management, scheduling, facility use, communication, promotions, registration, etc. *Prerequisite: Junior status or permission of the instructor.*

**SMGT-3880 1–3 hours****Special Topics in Sport Management–Su**

This course will be a means of exposing students to current issues and trends in the sport industry.

**SMGT-4100 3 hours****Sponsorship and Promotion in the Sport Industry–Fa**

This course builds upon basic principles of marketing by applying promotional and sponsorship activities to the sport and fitness industry. Areas of application include professional sport, intercollegiate sport, olympic sport, interscholastic sport, fitness clubs and resorts.. *Prerequisite: Senior status or permission of the instructor. (Fee: \$65)*

**SMGT-4200 Financing Sport Operations–Fa 3 hours**

This course provides the student with an overview of the financial aspects of the sport industry.

**SMGT-4850 1–3 hours****Independent Study in Sport Management–Fa, Sp**

Independent study in the area of sport management by students pursuing the sport management major. *Departmental approval is required.*

**SMGT-4910 Athletic Administration Practicum–Fa, Sp 1 hour**

This practicum provides the sport management major the opportunity to assist a local athletic administrator with their responsibilities for a required minimum of 30 hours total.

*Prerequisites: SMGT-3200 Facility Design and Management; SMGT-3300 Event Planning and Production.*

**SMGT-4990 9–12 hours****Internship in Sport Management–Fa, Sp**

This is an actual work experience in a sport management setting for a minimum of 40 hours per week for a minimum of twelve weeks. Capstone course for sport management major. *Departmental approval is required. Credit/no credit. (Fee: \$35)*

**Department of Communication  
Course Descriptions****Broadcasting and Digital Media (BRDM)****BRDM-1110 Introduction to Broadcasting and Digital Media–Fa 3 hours**

A survey of electronic media, including history and development, types, audience research, regulations, and globalization.

**BRDM-1120 Audio Technical Training–Fa, Sp 3 hours**

Students receive instruction and training in the operation of software and hardware used in audio media. The course focuses on gaining knowledge and experience with Pro Tools software and audio hardware including microphones, control surfaces and interfaces, signal processors, audio monitors, etc. Students in the course will use these tools to produce several audio projects. (Fee: \$45)

**BRDM-1210 Media Performance–Sp 3 hours**

Examines announcing for a variety of applications including: commercial, audio book, interviewing, news, sports, and music radio. The emphasis is on the application of key principles through assignments that focus on use of the voice as a tool for communication of ideas on a one-to-one basis. (Fee: \$45 )

**BRDM-2110 Video Technical Training–Sp 3 hours**

This course provides hands-on training with all video production equipment, including cameras, lighting, sound, and editing. The student will learn basic television skills and technical terms. (Fee: \$45)

- BRDM-2130 Writing for Electronic Media–Fa 3 hours**  
Covers the form and style of writing for radio, television, and interactive media. Work in the course includes news writing, public service announcements, promotional announcements, advertisements, video scripting, and writing for the web.
- BRDM-2220 Sound Design–Sp 3 hours**  
This course is designed to prepare the media production student to create sound designs for radio, television, film and other audio media by studying the nature of sound, psychoacoustics, the power of the voice, sound effects, and music and how they can be used in combination with visual image to influence listeners/viewers. Students will create and execute a variety of sound designs for radio, television, and other audio media. *Prerequisite: BRDM-1120 Audio Technical Training.* (Fee: \$45)
- BRDM-2320 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 \$45)
- BRDM-2350 Introduction to Graphics for TV and Film–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).
- BRDM-2606 Introduction to Computer Animation–Fa 2 hours**  
An introduction to the use of 3D animation software. The course focuses on learning the basics of Autodesk Maya and general principles and workflow for 3D computer graphics in production work. (Fee: \$45)
- BRDM-2810 Sophomore Seminar–Fa 1 hours**  
The sophomore seminar in broadcasting and digital media is designed to acquaint students with current trends in the electronic media and to aid students in understanding key concepts for building a successful career including networking, professional development, résumé and portfolio development, and strategies for career entry in the electronic media field. *Prerequisite: BRDM-1110 Introduction to Broadcasting and Digital Media.*
- BRDM-3111 Survey Research for Electronic Media–Sp 3 hours**  
The study of survey research methodologies used in electronic media, including audience analysis; program and screen design testing; station and website ratings. Includes an introduction to academic research in electronic communication using survey methodologies. *Prerequisite: BRDM-1110 Introduction to Broadcasting and Digital Media.* (Fee: \$15)
- BRDM-3150 Media Ethics–Fa 2 hours**  
Development of an applied theistic ethic for media practitioners. Topics for ethical examination include media content, business practices, advertising, journalism, privacy, and intellectual property rights. Crosslisted with JOUR-3150. *Prerequisite: junior or senior status.*
- BRDM-3151 Christian Approaches to Electronic Media–Sp 2 hours**  
Builds upon theistic critiques of the connections between society and technology to develop an understanding of how Christians approach the electronic media, both as consumers and practitioners.
- BRDM-3210 Digital Audio Post Production–Fa 3 hours**  
This course is designed to teach the theories, principles, and practices of multi-track studio production. Students will produce a number of audio projects for radio, television, and film in the Pro Tools HD production environment. *Prerequisite: BRDM-1120 Audio Technical Training.* (Fee: \$45)
- BRDM-3211 Digital Music Production–Sp 3 hours**  
This course offers students hands-on experience with modern mixing techniques, specifically utilizing Pro Tools HD hardware and software. Current theory and methods of signal processing utilized in the mix down process are covered. Each student will have the opportunity to track, edit, mix, and master professional musicians. This class is for the serious student of audio who is interested in learning about the music production process. *Prerequisites: BRDM-1120 Audio Technical Training and BRDM-3210 Digital Audio Post Production.* (Fee: \$45).
- BRDM-3215 Live Sound–Fa 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. *Prerequisite: BRDM-1120 Audio Technical Training.* (Fee: \$45)
- BRDM-3216 Audio for Video and Film–Sp 3 hours**  
Audio for video/film will expose the student to the theories and the practical challenges of gathering audio in the field as a part of a video/film project. The course will also focus on working with sound in the studio during post-production and will include areas such as automatic dialogue replacement and Foley sound effects. Students will record and produce all of the sounds for a major film project. *Prerequisite: BRDM-1120 Audio Technical Training and BRDM-3210 Digital Audio Post Production.* (Fee: \$45).
- BRDM-3310 Digital Film Production–Fa 3 hours**  
Taught from the producer's perspective. Hands-on training dealing with all the variables in making a video's and short films, including preproduction, production, and post-production non-linear editing platforms. *Prerequisite: BRDM-2110 Video Technical Training or approval from the instructor.* (Fee: \$45)
- BRDM-3330 Screenwriting–Fa 2 hours**  
An advanced writing course for students interested in learning the formal construction involved in writing a professional screenplay, with emphasis on dramatic writing and strong character development. *Prerequisite: BRDM-2130 Writing for Electronic Media.*
- BRDM-3350 Documentary Film–Sp 3 hours**  
An overview of the origins, development, and current trends in the production of documentary films. Emphasis is given to the viewing and analysis of selected documentary programs. (Fee: \$45) (even years)
- BRDM-3355 VFX and Compositing for TV and Film–Fa 3 hours**  
This course deals with the creation of computer-generated visual effects and the process for compositing those effects into live action footage. Topics include VFX creation, image matching and manipulation and compositing techniques using industry standard software. *Prerequisites: BRDM-2350 Introduction to Graphics for TV and Film.* (Fee: \$45)
- BRDM-3370 Documentary Film-Style Production–Sp 3 hours**  
Further study of the framework for non-fiction film-style production. Emphasis is placed on cinematography, interviewing, paper editing, directing, post-production, and distribution unique to documentary programming. *Prerequisite: BRDM-2110 Video Technical Training.* (Fee: \$45) (odd years)

**BRDM-3410 Broadcasting and Media Sales–Fa 3 hours**

The course focuses on developing an understanding of the theory and practice of the sale of advertising for a variety of electronic media. Students will study and apply client and product research, advertising strategies, sales technique, and presentational methods. Sales executives work with the class to develop the knowledge and skills described above and to help them select and work with a media client to develop an advertising campaign. *Prerequisite: BRDM-3111 Survey Research for Electronic Media.*

**BRDM-3420 3 hours****Broadcasting and Media Management–Sp**

This course is designed to acquaint the student with the concerns facing the management of a media company including legal requirements of the FCC, personnel management, implementation of programming, and station acquisition.

*Prerequisite: BRDM-3111 Survey Research for Electronic Media.*

(Fee: \$45)

**BRDM-3605 3 hours****Writing and Design for Web and Mobile Media–Sp**

The purpose of this course is to introduce students to the special design and writing necessary for emerging new media, including the web, mobile media, and social networking sites and services. Crosslisted with JOUR.

**BRDM-3611 Web Analytics–Fa 3 hours**

The study of methods for gathering and interpreting Web tracking and usage data. The approach taken is a 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-3620 Digital Compression and Streaming–Fa 3 hours**

The course deals with the preparation and delivery of digital media files. Topics include digital media file formats, methods for compression of audio and video files and methods of streaming digital media files over the Internet via Web sites. *Prerequisite: BRDM-1120 Audio Technical Training; BRDM 2110 Video Technical Training.* (Fee: \$45)

**BRDM-3630 Principles of Computer Animation–Sp 3 hours**

Application of the principles of traditional cell-based animation to computer animation, as well as the effective use of animation for communication.

**BRDM-3650 Networked Audience–Fa 3 hours**

Students will develop a framework for understanding the audience by looking at the intersection of a wide variety of factors that shape the media environment. The students will then project current trends to anticipate where the audience will be in the next five years. Crosslisted with JOUR. *Prerequisite: Junior or senior status.* (Fee: \$10)

**BRDM-3720 Audio Production Practicum–Fa, Sp 1 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.

*Prerequisites: BRDM-1110 Introduction to Broadcasting and Digital Media; BRDM-1120 Audio Technical Training.* (Fee: \$45)

**BRDM-3731 Video Production Practicum–Fa, Sp 1 hour**

Production on a video crew in large auditorium production as assigned by the instructor. The course is repeatable for a total of six hours. (Fee: \$45)

**BRDM-3733 Sports Production Practicum–Fa, Sp 1 hour**

Production on a video crew in sports production as assigned by the instructor. The course is repeatable for a total of six hours. (Fee: \$45)

**BRDM-3734 Film Practicum–Fa, Sp 1 hours**

Production on a digital film crew as assigned by the instructor.

**BRDM-3741 Sales and Management Practicum–Fa, Sp 1 hour**

The practicum is designed to place the student in a variety of professional settings on and off campus, with the purpose of allowing the student to observe and practice sales and management skills acquired in earlier courses. The course is repeatable for a total of three hours. *Prerequisites: BRDM-3410 Electronic Media Sales; BRDM-3420 Broadcasting and Media Management; junior or senior status; permission of the instructor.*

**BRDM-3761 Interactive Media Practicum–Fa, Sp 1 hour**

The student will develop an interactive medium product, such as a webpage or as a member of a production team under the supervision of a faculty mentor. Repeatable for a total of 2 credit hours. *Prerequisite: BRDM/JOUR-3605 Writing and Design for Web and Mobile Media.* (Fee: \$45)

**BRDM-3765 Animation Practicum–Fa 1 hour**

The student will develop an animation project individually or with a team, working under the supervision of a faculty mentor. Repeatable for a total of 2 credit hours. *Prerequisites: BRDM-3630 Principles of Computer Animation; permission of faculty mentor.* (Fee: \$25)

**BRDM-4110 Electronic Media Law and Regulation–Fa 3 hours**

A study of the legal protections and requirements placed upon the electronic media. Emphasis is placed upon court decisions that help to define First Amendment freedoms for those in the media, as well as regulations placed upon the electronic media.

**BRDM-4155 Image and Word in a Visual Culture–Fa 3 hours**

An inquiry into the tension between image and word in Jewish and Christian thought and the implications for Christians living in a visual culture. Traces this tension through the art of Judaism and the Medieval church, the iconoclastic controversies of early Byzantium and the English Civil Wars, and recent and contemporary religious thinkers. Crosslisted as HON-4155.

**BRDM-4310 3 hours****Advanced Cinematography and Lighting–Sp**

Taught from the director's perspective, each student will learn advanced digital film production techniques including camera movement, lighting techniques, and non-linear editing advanced use of effects and color correction. *Prerequisite: BRDM-2110 Video Technical Training; BRDM-3310 Digital Film Production.* (Fee: \$45)

**BRDM-4410 Media Marketing and Promotions–Fa 3 hours**

This course will explore issues involved in managing a firm's promotional operations, including advertising, sales promotion, personal selling, public relations, institutional promotion, and publicity. Promotional strategy, objective setting, communication models and listener/viewer response, competitive positioning, legal issues, media strategy, planning and design, and measurement of promotion effectiveness are also studied.

*Prerequisites: BRDM-1110 Introduction to Broadcasting and Digital Media, and BRDM-3420 Broadcasting and Media Management*

**BRDM-4650 3 hours****Designing Solutions for New Audiences–Sp**

Because of the ongoing changes in the communication system, media companies and businesses are in constant reinvention of the ways in which they meet the needs of their audiences by innovations in programming, products and services. In this course students will be presented with a current problem in the use of new and emerging media to connect a client with its audience. Teams will then design a solution to meet the needs of both client and audience. Crosslisted with JOUR. *Prerequisite: BRDM/JOUR-3650 Networked Audience.*

**BRDM-4700 Special Topics in Electronic Media–Fa, 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 and digital media major.* (Fee: \$45)

**BRDM-4920 Senior Project** 3 hours

The student selects one of two options: 1) a paper reporting on the student's original research that investigated a topic in electronic media or 2) a media production. A proposal detailing the student's plan for the senior project must be submitted and approved by the faculty mentor prior to registration for the course. Capstone course. *Prerequisites: BRDM-3111 Survey Research for Electronic Media; GPA of 3.0 in major courses; senior status; permission of BRDM faculty.* (Fee: \$35)

**BRDM-4930 Electronic Media Internship** 3–12 hours

Students are placed with media companies to gain experience in actual career situations. The work must be done under the supervision of an employee of the company approved by the faculty mentor. Students should discuss this option with their advisors at least one semester prior to the internship. Internship agreements must be signed by the student, job supervisor, and faculty mentor prior to registration for the experience. Internships depend upon availability and approval by the electronic media faculty. Capstone course. *Prerequisites: GPA of 3.0 in major courses; senior status; approval by the electronic media faculty.*

**Communication Studies (COM)****COM-1100 Fundamentals of Speech**–Fa, Sp 3 hours

Usually a prerequisite for other courses in speech, the fundamental course offers theory and practice in basic speech skills for extemporaneous speaking and the use of voice and delivery in oral interpretation of prose and poetry. Students gain extensive training in public speaking as an art.

**COM-1120 Honors Speech**–Fa 3 hours

Exposes 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-2320 Theories of Mass Media**–Fa, Sp 3 hours

Contemporary mass media is surveyed with attention to the nature, role, structure, influence, operation, and problems of newspapers, magazines, radio, and television-journalistic activities. The course also examines issues involving new communication technologies such as the web, personal digital assistants, and digital broadcasting.

**COM-2330** 3 hours**Writing for Communication Professions**–Fa

This course covers the form and style of writing for internal and external communications, including use of social media and persuasive writing. Course work includes writing executive summaries, memos, proposals, reports, grants, press releases, and opeds as part of a semester-long project. Students will also learn to manage communication in email, Twitter, and Facebook.

**COM-2440 Advanced Forensics**–Fa, Sp 1 hour

Advanced training for intercollegiate forensic competition. Focus on literary and rhetorical criticism, extemporaneous speaking, and the writing of original oratory. Repeatable up to six hours.

**COM-2510 Media History**–Sp 3 hours

This course offers the historical foundations of mass communication from colonial America to the present. Focuses on the growth of news and entertainment media within a social, political, and economic framework of each era of development. Particular attention is given to the interaction of minority and mainstream media.

**COM-2520 Virtual Communication**–Fa 3 hours

This course will teach students how to be successful biblical and professional virtual communicators through hands-on practice of successful online communication principles and techniques.

- COM-2820 Political Communication–Fa** **3 hours**  
A survey of the theory and practice surrounding the relationship between media and politics. Issues such as the role of media in promoting democracy; media effect theories, political knowledge, and the public's response to news; and the role of public opinion in an open society will be explored. (even years)
- COM-3100 Advanced Public Speaking–Sp** **3 hours**  
Emphasizes the creative, logical, and audience-centered thinking needed for excellent public address. Students exhibit logical communication skills through writing and speaking assignments. *Prerequisite: COM-2200 Communication in Applied Contexts.*
- COM-3120 Argumentation–Sp** **3 hours**  
The study of principles and practices of critical thinking and argumentation. Course includes an overview of debate theory as a vehicle for argumentation as well as the theory involved in logical preparation and refutation of a position.
- COM-3150 Gender, Politics, and Communication–Fa** **3 hours**  
Using communication theory and biblical application, this course studies the patterns and the effects of communication upon male and female genders identifying the political struggles that are a part of gender relationships and communication. The women's movement, contemporary masculinity studies, and the Christian church's response to gender issues are surveyed.
- COM-3230 Organizational Communication–Sp** **3 hours**  
The study using communication for organizational structure. The course focuses on major organizational theories, topics, and their communicative implications. The role of communication during conflict management, negotiation, crisis management, and small group process in the organizational context. (Fee: \$10)
- COM-3240 Interpersonal Communication–Sp** **2 hours**  
Centers on the nature and function of interpersonal communication as it operates within casual encounters, families, organizations, and institutions. Implications for personal, social, and professional growth will be considered.
- COM-3250 Interviewing–Fa, Sp** **3 hours**  
Focuses on the study of fundamental interviewing principles. Instruction and training are offered across a variety of interviewing situations, including informational, employment, and persuasive interviews.
- COM-3260 Organizational Negotiation–Fa** **3 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 Clinical Methods in Teaching Speech–Fa, Sp** **2 hours**  
Students seeking certification for teaching speech will gain classroom experience. One credit hour equals 20 classroom hours. Department staff members will supervise all assignments. Credit/no credit.
- COM-3710 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-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.

- COM-4710–4760 Independent Study** 1–3 hours  
**COM-4710–General Communication–Fa, Sp** 1–3 hours  
**COM-4720–Organizational Communication–Fa, Sp** 1–3 hours  
**COM-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. *Prerequisite: permission of instructor.*

- COM-4850 Senior Seminar–Sp** 1 hour

A transitional seminar to provide students with the opportunity to culminate their academic program and begin the orientation to the professions of communication. The course will prepare students for employment demands, revise resumes, develop interview skills, and establish networking techniques for success in their communication profession.

- COM-4900** 3–12 hours

**Internship in Communications–Fa, Sp, Su**

Students are placed with professional organizations to gain experience in actual career situations. Internships depend upon availability.

- COM-4950 Applied Capstone–Fa, Sp** 3 hours

This course is the culmination of the major in Communication. It provides an opportunity for students to bring together the academic training and professional skills in a focused application. Students work with an advisor to develop a project culminating their program of study in one of four options selected with approval of the capstone coordinator and the faculty advisor. All capstone projects will be presented in written and/or public forum. *Prerequisites: COM-2050 Communication Theory or COM-2320 Theories of Mass Media and COM-2220 Quantitative Research or COM-2225 Qualitative Research. (Fee: \$15)*

### Journalism (JOUR)

- JOUR-1000 Introduction to Media Writing–Sp** 3 hours

This intensive writing course prepares students to write news copy for a variety of media. Students learn basic journalistic practices and writing formats. Priority given to majors.

- JOUR-2000 Introduction to Reporting–Sp** 3 hours

This course is designed to develop and enhance the primary journalistic skills presented in JOUR-1000. The objective for this course is to provide opportunity for students to polish their writing skills. Each student will have the opportunity to expand their abilities as a writer, to write more sophisticated stories, and to receive greater feedback on their reporting style and content. *Prerequisites: JOUR-1000 Introduction to Media Writing. (Fee: \$50)*

- JOUR-2500 Introduction to Public Relations–Fa** 3 hours

This course acquaints students with the foundations of public relations as a profession. The course includes discussion of key individuals and events in its development. It provides an overview of the theoretical aspects of public relations practices and techniques. The media relationship of public relations practitioners to the mass media is examined. Codes of ethics for practitioners are also explored.

- JOUR-3100 Media Law–Sp** 3 hours

Examines the rights and responsibilities of journalists in American society. It explores and applies federal and state laws and regulations associated with the media. Topic areas will include the journalist and the first amendment, access to government information, libel, and privacy. Special attention will be given to legal issues related to new media. *Prerequisite: junior or senior status.*

- JOUR-3150 Media Ethics–Fa** 2 hours

This course examines the rights and responsibilities of the journalist in American society. It examines and applies federal and state laws and regulations associated with the media. Topic areas will include the journalist and the first amendment, access to government information, libel, and privacy. Special attention will be given to legal issues related to new media. Crosslisted with BRDM-3150. *Prerequisite: junior or senior status.*

- JOUR-3310** 3 hours

**Advanced Newswriting and Reporting for Broadcasting–Sp**

Building on basics of newswriting, this course provides the opportunity to focus on reporting and writing techniques unique for broadcast media. Includes advanced skills in the organization and presentation of news stories. It provides in-depth broadcasting techniques in reporting and interviewing, as well as the use of computer-assisted reporting. *Prerequisite: JOUR-2000 Introduction to Reporting. (Fee: \$50)*

- JOUR-3320** 3 hours

**Advanced Newswriting and Reporting for Print–Fa**

This course will provide students with the opportunity to develop in-depth newswriting skills for print media. Changing concepts of news will be discussed and appropriate writing methods for traditional and new media outlets will be presented. The student will apply reporting principles to a variety of news contexts including accidents, crime and the courts, sports, business, and local government. The techniques of computer-assisted journalism will also be presented and applied. The ethics of sound reporting will be an important instructional component of the course. The challenges of sound reporting after 9/11 will be discussed. *Prerequisite: JOUR-2000 Introduction to Reporting. (Fee: \$50)*

- JOUR-3350 Television News Production–Fa** 3 hours

This course provides the basis for broadcast journalism students to understand the components of studio production of television news programs. Instruction focuses on the process and elements needed to produce a televised newscast. *Prerequisite: JOUR-3310 Advanced Newswriting and Reporting for Broadcasting; JOUR-3320 Advanced Newswriting and Reporting for Print. (Fee: \$50)*

- JOUR-3420 Editing and Design–Sp** 3 hours

This course will teach students the methods to edit news stories for publication. In this course, students will learn the role of the editor in the news process and the editorial skills to prepare news stories for publication. The course will also cover the development of appropriate headlines and methods of designing story layout in ways that are clear and appealing to a target audience. Students will be taught to bring both a detailed and holistic approach to the development of the news story for printed media. Current developments in the field of editing and design will be applied to contemporary news events to facilitate application of the principles of the course. *Prerequisites: JOUR-3310 Advanced Newswriting and Reporting for Broadcasting; JOUR-3320 Advanced Newswriting and Reporting for Print. (Fee: \$50)*

- JOUR-3500** 3 hours

**Public Relations Principles and Writing–Sp**

This course provides instruction in effective public relations communication both within organizations and to various media outlets. Students develop problem-solving approaches to PR challenges and apply appropriate written, visual, and spoken messages to audiences using different media of communication. *Prerequisite: JOUR-2500 Introduction to Public Relations.*

- JOUR-3550** **3 hours**  
**Advanced Public Relations Writing–Sp**  
 Building on the basics of public relations principles and writing, this course provides the opportunity to focus on particular writing techniques employed in specialized public relations contexts. This includes writing for internal publics in the form of reports, proposals, backgrounders, and position papers. In addition, students will learn to write for external publics in print, broadcasting, and online media contexts, developing proficiency in presentational and speech communication, news, feature and advertising copy. *Prerequisite: JOUR-3500 Public Relations Principles and Writing.*
- JOUR-3600 Computer-Assisted Reporting–Fa** **3 hours**  
 This course teaches students the basic skills needed to use a computer to collect and analyze data necessary to write news stories. Students will learn how to gather background information, mine databases, analyze public records, study political and demographic trends with information system mapping, and conduct interviews by email. *Prerequisites: JOUR-3310 Advanced Newswriting and Reporting for Broadcasting; or JOUR-3320 Advanced Newswriting and Reporting for Print.* (even years) (Fee: \$50)
- JOUR-3605** **3 hours**  
**Writing and Design for Web and Mobile Media–Sp**  
 The purpose of this course is to introduce students to the special design and writing necessary for emerging new media, including the web, mobile media, and social networking sites and services. Crosslisted with BRDM.
- JOUR-3650 Networked Audience–Fa** **3 hours**  
 What is happening to the audience for media content and how is that likely to change over the next five years? That is the question that this course seeks to answer. Students will develop a framework for understanding the audience by looking at the intersection of a wide variety of factors that shape the media environment. The students will then project current trends to anticipate where the audience will be in the next five years. *Crosslisted as BRDM.* (Fee:\$10)
- JOUR-3900 Practicum in Journalism–Fa, Sp** **1 hour**  
 Development of news stories for transmission to print, broadcasting and online media outlets within the University (Cedars, In the Loop, Resound Radio, Cedars Online) either individually or as a member of a team under the supervision of a faculty mentor. The practicum is organized in a news agency format with a rotating editorial board. *Prerequisites: JOUR-3310 Advanced Newswriting and Reporting for Broadcasting; JOUR-3320 Advanced Newswriting and Reporting for Print.*
- JOUR-4350** **2 hours**  
**Advanced Television News Production–Fa**  
 Focuses on the studio production of television news programs, anchoring, and meeting broadcast news deadlines. Provides advanced techniques in reporting and field production, including live news reports and investigative reporting. *Prerequisite: JOUR-3350 Television News Production.* (Fee: \$50)
- JOUR-4420 Feature Writing–Sp** **3 hours**  
 Students will learn a variety of different forms of hard and soft feature writing styles. These will include personal profiles, trend stories, human interest stories, backgrounders, and in-depth stories. Exercises developing a narrative style of writing will be an important component of this course. *Prerequisite: JOUR-3320 Advanced Newswriting and Reporting for Print.* (Fee: \$50)
- JOUR-4500 Public Relation Campaigns–Sp** **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. *Prerequisite: JOUR-3550 Advanced Public Relations Writing.*
- JOUR-4550 Practicum in Public Relations–Sp** **1 hour**  
 Development of public relations campaigns and products, such as brochures, videos, news releases, press kits, and feature stories either individually or as a member of a team under the supervision of a faculty mentor. *Prerequisite: JOUR-3500 Public Relations Principles and Writing; or by permission of instructor.*
- JOUR-4600 Magazine Writing–Fa** **3 hours**  
 This course covers the techniques of writing in-depth articles for mass circulation and specialized magazines. Students will learn the process of writing and submitting feature articles as well as analysis of markets for freelance magazine articles. Students will prepare and submit professional quality manuscripts for publication. *Prerequisite: JOUR-3320 Advanced Newswriting and Reporting for Print.*
- JOUR-4610 Photojournalism–Sp** **3 hours**  
 This course focuses on the techniques and aesthetics of reporting the news as a photojournalist. It emphasizes recognition, development and creation of news photographs and the skills of the photo editor. As part of this course, students will gain experience in shooting, developing, printing, and editing the images for a variety of news media. The course will emphasize how public relations and journalism professionals can use photographs for publication in traditional media, websites, company brochures, and digital slide-show presentations. *Prerequisites: JOUR-3420 Editing and Design, or by permission of instructor.* (Fee: \$50)
- JOUR-4620 Investigative Reporting–Fa** **3 hours**  
 This course provides students with the tools and techniques to conduct contemporary in-depth reporting. The content is aimed at developing professional excellence in serving the public interest by acting as a watchdog on government, business, education, health, environment, safety, and other institutions. Students will develop strategies for gathering and analyzing information, and developing background and through the written assignments gain competence in the different narration techniques used in in-depth newswriting and reporting. *Prerequisites: JOUR-3310 Advanced Newswriting and Reporting for Broadcasting; JOUR-3320 Advanced Newswriting and Reporting for Print.* (odd years) (Fee: \$50)
- JOUR-4650** **3 hours**  
**Designing Solutions for New Audiences–Sp**  
 Because of the ongoing changes in the communication system, media companies and businesses are in constant reinvention of the ways in which they meet the needs of their audiences by innovations in programming, products and services. In this course students will be presented with a current problem in the use of new and emerging media to connect a client with its audience. Teams will then design a solution to meet the needs of both client and audience. Crosslisted with BRDM. *Prerequisite: JOUR/BRDM-3650 Networked Audience.*
- JOUR-4810 Special Topics in Journalism–Fa** **3 hours**  
 Available to advanced students who desire in-depth study of special areas of journalism. Topics of current interest in the field of journalism will be offered to cover in-depth areas of specialization. Topics may include photojournalism, sports journalism, international news, news and religion, news media management, magazine, editing, opinion writing, and business and financial reporting. *Prerequisites: JOUR-3310 Advanced Newswriting and Reporting for Broadcasting; JOUR-3320 Advanced Newswriting and Reporting for Print; or permission of instructor.* (even years) (Fee: \$50)



**JOUR-4820 Special Topics in Public Relations–Sp 3 hours**

Available to advanced students who desire intense study of special areas of public relations. Topics of current interest in the field of public relations will be offered to cover in-depth areas of specialization. Topics may include crisis communication, agency management, event planning, and international public relations. *Prerequisites: JOUR-3550 Advanced Public Relations Writing; or permission of instructor. (even years)*

**JOUR-4950 Internship–Fa, Sp, Su 3–12 hour**

Students are placed with professional organizations to apply their journalism training and gain experience in actual career situations. This should be discussed with an advisor one semester prior to the internship experience. Internship agreements must be signed by the student, the job supervisor, and the faculty mentor prior to the initiation of the internship. *Prerequisite: for print major, JOUR-3420 Editing and Design; for broadcasting major, JOUR-3350 Television News Production; for public relations major, JOUR-3550 Advanced Public Relations Writing.*

**Professional Writing and Information Design (PWID)****PWID-3000 3 hours****Production Tools and Document Design–Fa**

Students will learn to teach themselves technology to prepare for learning new technology as it evolves in industry. Students will also learn document design principles to help them create visually stimulating, well-organized documents.

**PWID-3010 Style and Mechanics for Writers–Fa, Sp, Su 3 hours**

Students will learn to apply reliable principles to make writing clear, concise, coherent, and cohesive. Crosslisted with ENG 3010 Style and Mechanics for Writers. *Prerequisite: ENG-1400 Composition.*

**PWID-3011 Legal and Research Writing–Fa 1 hour**

Students will learn to apply reliable principles to make their writing clear, concise, coherent, and cohesive. In addition, they will learn to write persuasive documents that are required of professionals in the fields of law and public administration. *Prerequisite: ENG-1400 Composition. Corequisite: PWID-3010 Style and Mechanics for Writers*

**PWID-3020 Professional Portfolio Development I–Fa 1 hour**

Students will develop a professional portfolio and learn to use it effectively as a tool to obtain an internship.

**PWID-3090 Technical Marketing Communication–Fa 3 hours**

Students will learn to create marketing materials for the technical industry, from design to completion. *Prerequisites: PWID-3010 Style and Mechanics for Writers; PWID-3100 Designing Visual Communication.*

**PWID-3100 Designing Visual Communication–Fa 3 hours**

Students will learn to integrate visual design concepts to enhance communication in various documents and media. Topics will focus on increasing usability of communication products by targeted audiences. *Corequisite: PWID-2000 Production Tools for Technical Communication.*

**PWID-3130 Technical Communication–Fa 3 hours**

Students will study the technical communication profession. They will learn the skills needed to succeed in the field, professional approaches to solving problems in the field, and potential professional opportunities in technical communication.

**PWID-3170 2 hours****The Technical Communicator in a Corporate Culture–Sp**

Students will discuss issues beyond intellectual ability and technical know-how that are crucial to a successful career. They will discover guidelines to assist them in improving their emotional intelligence capabilities.

**PWID-3180 Visual Rhetoric–Fa 3 hours**

Students will learn to understand the rhetoric of visual language and to adapt visual language to specific audiences, purposes, and contexts — just as they do written texts. As a result, they should be able to respond flexibly to design problems in all professional documents.

**PWID-3210 Technical Editing–Sp 2 hours**

Students will learn to develop style guides and edit technical documents or communication using conventional and electronic methods to ensure consistent grammar, style, visual design, and technical accuracy for end-users in targeted audiences.

**PWID-3250 Documentation Design–Sp 3 hours**

Students will learn to plan, design, and create user documentation through systematic user analysis, task identification, effective writing, and effective visual design.

**PWID-4010 Designing Technical Reports–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: \$25)

**PWID-4050 Designing Online Information I–Fa 3 hours**

Students will learn how to design and manage information on the World Wide Web. The class addresses issues in usability, information architecture, and content strategy. Students will learn design principles and writing issues specific to the digital medium.

**PWID-4060 Designing Online Information II–Sp 3 hours**

Students will learn how to plan for, design, and provide front-end development for web pages. Students will learn to design mock ups for a web site and code those sites using HTML, XHTML, and CSS. *Prerequisites: PWID-4050 Designing Online Information I.*

**PWID-4070 Designing Online Information III–Sp 2 hours**

Students will learn advanced features of HTML and CSS and beginning concepts of JavaScript. Students will use these tools to create usable, effective websites filled with rich content. *Prerequisites: PWID-4050 Designing Online Information I and PWID-4060 Designing Online Information II.*

**PWID-4130 Instructional Design I–Fa 3 hours**

Teaches technical communicators how to employ technology and learning theory in developing adult training courses.

**PWID-4140 Instructional Design II–Sp 3 hours**

This course provides students with the opportunity to delve deeper into the art and science of instructional design by focusing on educational technology in general and e-learning tools, techniques, and practices specifically in use in today's corporate environment. The course also investigates the topics of knowledge management, performance support and human capital management in order to give students a well-rounded introduction to the contemporary practice of non-traditional instructional design. *Prerequisites: PWID-4130 Instructional Design I or permission of instructor.*

**PWID-4160 3 hours****Technical and Professional Communication Internship–Su**

Students will participate in a work-study program approved and administered by the department in which advanced Professional Writing and Information Design students receive a variety of job-related experiences in a communication environment. *Prerequisite: permission of instructor.*

**PWID-4170 Special Topics–Sp****3 hours**

Students will study a selected topic(s) at the 4000-level. The flexibility of this course allows the faculty to meet the ever-changing nature of technical communication. Possible topics include project management, professional presentations, research methods, ethics in PWID, or other topics presented by faculty or requested by students. *Prerequisites: PWID-3130 Technical Communication; PWID-3010 Style and Mechanics for Writers* Capstone course.

**PWID-4230****1–3 hours****Independent Study in Technical and Professional Communication–Fa, Sp, Su**

Independent study for junior and senior-level PWID majors with special interests and demonstrated ability.

**School of Education Course Descriptions****Early Childhood Education (EDEC)****EDEC-2100****2 hours****Art and Music for Early Childhood–Fa, Sp**

An overview of the use of art and music to enhance the early childhood classroom. A strong emphasis on practical techniques and projects for personal expression based on an understanding of the importance of art and music at the system, school, classroom, and individual levels. *Prerequisite: EDUC-1000 The Education Profession.* (Fee: \$20)

**EDEC-2300 Phonics and the Reading Process–Fa, Sp 4 hours**

The study of phonics and the place of phonics in the overall reading program. The course addresses multisensory strategies for reading, spelling, and writing instruction. It provides the scientific definition of dyslexia, its common characteristics standardized by the IDA, and the most effective research-based methodologies to address the instructional needs of individuals with dyslexia. Special emphasis on literacy and reading readiness. *Prerequisite: EDUC-1000 The Education Profession.*

**EDEC-3500 Early Childhood Education–Fa, Sp 3 hours**

An introductory descriptive overview of current early childhood education, including various approaches, programs, and curricula. Emphasis on the development, implementation, and evaluation of early childhood programs. *Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the Early Childhood Methods I block.* (Fee: \$10)

**EDEC-3600****3 hours****Issues in Early Childhood Administration–Fa, Sp**

An examination of program issues important to both teachers and administrators. Includes examination of models for leadership and for developing and maintaining personal and community working relationships. *Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the Early Childhood Methods I block.*

**EDEC-3800****4 hours****Teaching Reading and Language Arts: Early Childhood–Fa, Sp**

An introduction to the objectives, skills, instructional strategies, teaching aids, resource materials, and assessment techniques for teaching reading and the language arts to the early childhood student. An associated clinical experience provides theory-driven application. *Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the Early Childhood Methods I block.*

**EDEC-3900****1 hour****Field Experience in Early Childhood Education–Fa, Sp**

An observation and participation experience in which teacher candidates spend 12–15 full consecutive days focusing on classroom routines and instruction in a kindergarten or other preschool classroom. Designed to give a practical field-based aspect to all of the courses in the Early Childhood Methods I block. *Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the Early Childhood Methods I block.* (Fee: \$45)

**EDEC-3950 Early Childhood Clinical I–Fa, Sp****3 hours**

Teacher candidates spend 14–17 full consecutive days in an early childhood classroom including 12–15 days of teaching. The implementation of reading and language arts objectives, skills, strategies of instruction, teaching aids, and resource materials is practiced in a University-supervised setting. *Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the Early Childhood Methods I block.* (Fee: \$135)

**EDEC-3990****1–3 hours****Independent Study in Early Childhood Education–Fa, Sp, Su**

An investigation of contemporary topics in early childhood education through reading, writing, or creative projects.

**EDEC-4000****2 hours****Reading in the Content Areas: Early Childhood–Fa, Sp**

An introduction to the dimensions, strategies, and programs for learning and teaching the reading process, including the nature of the reading process, assessment techniques, and instructional strategies to increase comprehension of the textual material of the various disciplines taught in the elementary grades. *Prerequisite: successful completion of the Early Childhood Methods I block. Corequisite: other courses in the Early Childhood Methods II block.* (Fee: \$25)

**EDEC-4100****3 hours****Teaching Mathematics: Early Childhood–Fa, Sp**

An introduction to the objectives, skills, instructional strategies, teaching aids, and resource materials for teaching mathematics to the young child, based on the Ohio Model and NCTM Standards. An associated clinical experience provides theory-driven application. *Prerequisite: successful completion of the Early Childhood Methods I block. Corequisite: other courses in the Early Childhood Methods II block.*

**EDEC-4200****3 hours****Teaching Science: Early Childhood–Fa, Sp**

An examination of science curricula for the young child with particular emphasis on the Ohio Model and the National Science Standards. Instructional methodologies that emphasize an inquiry approach will be modeled and practiced with attention given to a hands-on approach to instruction. *Prerequisite: successful completion of the Early Childhood Methods I block. Corequisite: other courses in the Early Childhood Methods II block.* (Fee: \$35)

**EDEC-4300****3 hours****Teaching Social Studies: Early Childhood–Fa, Sp**

An examination of social studies curricula for the young child with particular emphasis on the Ohio model, the NASS Standards, and the integration of social studies with other disciplines, and the Ohio Model of Values Added Assessment. Instructional methodologies that emphasize the teaching of thinking, student interaction, and the use of instructional technologies will be modeled and practiced. Application of skills in the field as required. *Prerequisite: successful completion of the Early Childhood Methods I block. Corequisite: other courses in the Early Childhood Methods II block.*

**EDEC-4450 Early Childhood Clinical II—Fa, Sp 3 hours**

Teacher candidates spend 20–25 days in an early childhood classroom, including 17–22 days teaching mathematics, social studies, and science. This field experience provides theory-driven application to instruction with an emphasis on reflective teaching and collegial teamwork. Teacher candidates are formally supervised and evaluated by University supervisors. *Prerequisite: successful completion of the Early Childhood Methods I block. Corequisite: other courses in the Early Childhood Methods II block.* (Fee: \$105)

**EDEC-4880 1–3 hours****Topics in Early Childhood Education—Fa, Sp, Su**

Selected topics in early childhood education that will complement or extend existing courses or expose candidates to topics not taught in other courses; may be proposed by an EDEC faculty or student. *Prerequisites: faculty advisor and instructor's permission*

**EDEC-4900 12 hours****Student Teaching and Seminar: Early Childhood—Fa, Sp**

A teaching experience in an early childhood setting under the supervision of the mentor teacher and a university supervisor. Required seminars encourage reflection on the teaching experience, as well as discussion of issues of importance to educators. *Prerequisite: successful completion of the Early Childhood Methods II block.* (Fee: \$550)

**Middle Childhood Education (EDMC)****EDMC-2800 2 hours****Developmental Issues in Young Adolescents—Su**

A study of the physiological, social, emotional, cognitive, and spiritual issues in human development endemic to the transition from preadolescence to adolescence. Emphasis on development research as it applies to the development of educational objectives, learning environments, and teacher characteristics conducive to the needs of younger adolescents

**EDMC-3300 3 hours****Topics in Middle School Mathematics—Fa**

An investigative approach to selected mathematics topics that are taught in middle schools. Topics include logic, mathematics modeling, formulating, and problem solving in both mathematical and every day life situations. Real world connections with opportunities for exploration and communication by written, oral, and technological presentations are provided. *Prerequisite: EDUC-2800 Principles of Mathematics II.*

**EDMC-3500 4 hours****Principles of Teaching Middle School—Sp**

Teacher candidates learn to develop instruction based on observable learning objectives aligned with curriculum guides. Emphasis will be given to instructional models most appropriate for middle school students, including use of instructional technology. The course examines the developmental periods of later childhood and early adolescence from a psychological and sociological perspective and how school programs can be designed and implemented to deal with the unique aspects of these developmental periods. This course includes the application of grade-appropriate principles of assessment (including value-added). *Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the M.C. Methods I block.*

**EDMC-3550 3 hours****Curriculum and Instruction for Grades 4 and 5—Su**

An examination of the curricula of grades 4–5 and instructional strategies that emphasize content mastery and the development of critical inquiry. Particular emphasis placed on the Ohio Academic Content Standards for grades 4–5 in language arts, mathematics, science, and social studies. *Prerequisite: admission to Early Childhood Education Endorsement program. Corequisite: enrollment with EDMC-2800 Development Issues in Young Adolescents and EDMC-3970 Middle school clinical (Grades 4–5).*

**EDMC-3600 3 hours****Phonics and the Structure of Language—Sp**

An introduction to the rationale, skills, instructional and assessment strategies, teaching aids, resource materials, and appropriate technologies for the teaching of phonics. Emphasis given to the source, structure, function, and history of spoken language. *Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the M.C. Methods I block.*

**EDMC-3700 4 hours****Teaching Reading Through Middle School Literature—Sp**

A survey of the early history, major types, and modern trends of literature for children in grades 4–9. The social and personal value of literature is studied along with methods for using trade books to support reading instruction in an integrated reading/ writing/ language arts program. *Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the M.C. Methods I block.*

**EDMC-3800 3 hours****Writing Process and Language Arts Methods for Middle School—Sp**

A study of the curriculum, methods, and resources for assessing and teaching of the language arts at the middle school level. Emphasis will be on an integrated reading/writing/ language arts program and its importance across the curriculum. *Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the M.C. Methods II block*

**EDMC-3950 2 hours****Middle School Clinical I: Teaching Reading—Sp**

This experience provides for implementation of the objectives, skills, and strategies of instruction relative to middle grade reading instruction in a field-based setting. Teacher candidates are formally supervised and evaluated by cooperating teachers and university supervisors using Praxis/Pathwise criteria. *Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the M.C. Methods I block.* (Fee: \$115)

**EDMC-3970 Middle School Clinical (Grades 4–5)—Su 2 hours**

An observation and participation experience in grades 4 or 5. Clinical experience provides for the implementation of the objectives, skills, and strategies of grad 4–5 instruction and classroom management under the supervision of the experienced cooperating teacher and university supervisor. *Prerequisite: admission to Early Childhood Education Endorsement program. Corequisites: enrollment with EDMC-2800 Development Issues in Young Adolescents and EDMC-3550 Curriculum and Instruction for Grades 4–5.*

**EDMC-3990 1–3 hours****Independent Study in Middle Childhood Education—Fa, Sp, Su**

An investigation of contemporary topics in middle childhood education through reading, writing, or creative projects.

**EDMC-4000** 3 hours**Reading in the Content Area: Middle Childhood–Fa**

An introduction to the range of strategies and programs for teaching the reading process, including the nature of the reading process, assessment techniques, and instructional strategies to increase comprehension. The use of trade books and informational books in the content areas across the disciplines taught in the middle childhood grades is emphasized. *Prerequisite: successful completion of the M.C. Methods I block. Corequisite: other courses in the M.C. Methods II block.*

**EDMC-4050** 2 hours**Responsive Schools for Middle Childhood–Fa**

An examination of the developmental periods of later childhood and early adolescence from a psychological and sociological perspective. The course will also examine how school programs can be designed and implemented to deal with the unique aspects of these developmental periods. *Prerequisite: admission into the TEP courses in the M.C. Methods I block.*

**EDMC-4100** 3 hours**Teaching Mathematics: Middle Childhood–Fa**

An introduction to the objectives, skills, and instructional strategies for teaching middle school mathematics, based on the Ohio Model and NCTM Standards. An associated clinical experience provides opportunity for theory-driven application of knowledge and skills. *Prerequisite: successful completion of the M.C. Methods I block. Corequisite: other courses in the M.C. Methods II block.*

**EDMC-4200 Teaching Science: Middle Childhood–Fa** 3 hours

An introduction to the objectives, skills, and instructional strategies for teaching middle school science, based on the Ohio Model and NSTA Standards. The course provides a particular emphasis on hands-on science instruction, the scientific method, and the integration of science with other disciplines. *Prerequisite: successful completion of the M.C. Methods I block. Corequisite: other courses in the M.C. Methods II block. (Fee: \$95).*

**EDMC-4300** 3 hours**Teaching Social Studies: Middle Childhood–Fa**

An introduction to the objectives, skills, and instructional strategies for teaching middle school social studies, based on the NSSA Standards. The course provides a particular emphasis on the Ohio Model and the integration of social studies with other disciplines. *Prerequisite: successful completion of the M.C. Methods I block. Corequisite: other courses in the M.C. Methods II block. (Fee: \$75)*

**EDMC-4440 Middle Childhood Clinical II–Fa** 2 hours

This clinical experience allows the teacher candidate to apply the theories, principles, and techniques provided in the associated methods courses. *Prerequisite: successful completion of the M.C. Methods I block. Corequisite: other courses in the M.C. Methods II block. (Fee: \$135)*

**EDMC-4880** 1–3 hours**Topics in Middle Childhood Education–Fa, Sp, Su**

Selected topics in middle childhood education that will complement or extend existing courses or expose candidates to topics not taught in other courses; may be proposed by an EDMC faculty or student. *Prerequisites: faculty advisor and instructor's permission.*

**EDMC-4900** 12 hours**Student Teaching and Seminar: Middle Childhood–Fa, Sp**

A teaching experience in a middle childhood setting under the supervision of the mentor teacher and the University supervisor. Required seminars encourage reflection on the teaching experience as well as discussion of issues of importance to educators. *Prerequisite: successful completion of the M.C. Methods II block. (Fee: \$550)*

**Adolescent / Young Adult Education (EDSE)****EDSE-3100** 3 hours**Contemporary Young Adult Literature–Sp**

A study of contemporary young adult literature, addressing issues of interpretation, analysis, and personal response with an emphasis on literature that reflects a diversity of gender, race, and ethnicity. *Corequisite: other courses in the Adolescent and Young Adult Principles of Teaching block or permission of department Chair.*

**EDSE-3300 Developmental Reading–Sp** 3 hours

This course focuses on the reading goals and processes used in teaching English, language arts, and literature by language arts teachers at the secondary level. *Corequisite: other courses in the Adolescent and Young Adult Principles of Teaching block or permission of department Chair. (Fee: \$60)*

**EDSE-3800** 2 hours**Teaching Social Studies: Adolescent and Young Adult–Fa**

An emphasis on the identification, examination, and implementation of the methods and materials that are appropriate for each teacher candidate's discipline area. *Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the Adolescent and Young Adult Principles of Teaching block or permission of department Chair.*

**EDSE-3900 Music Education Field Experience–Fa, Sp** 2 hours

This supervised experience in a K–12 school prepares the teacher candidate for the student teaching experience by providing an opportunity to practice teaching methods. Candidates will be evaluated and must show potential to be successful in student teaching to receive credit. *Prerequisites: Admission to the Teacher Education Program and completion of or concurrent registration in EDMU-3710 Music for Early Childhood; and/or EDMU-3720 Music for Adolescent/Young Adults. (Fee: \$90)*

**EDSE-3990** 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-4000** 3 hours**Reading in the Content Areas: Adolescent and Young Adult–Fa**

An introduction to the range of strategies and programs for learning and teaching the reading process, including the nature of the reading process, assessment techniques, and instructional strategies to provide increased comprehension of the textual material of the disciplines represented by teacher candidates in the class. This course is for Multi-Age Spanish and Adolescent and Young Adult Teacher Education Program majors. This course will be taught in online format. *Prerequisite: admission to the Teacher Education Program. Corequisites: other courses in the Adolescent and Young Adult Principles of Teaching block or permission of department Chair.*

**EDSE-4100** 5 hours**Principles of Teaching: Adolescent and Young Adult–Fa**

An introduction to the objectives, skills, and instructional strategies needed for the teaching of adolescent and young adult students. This course will include instruction in Value Added assessment. An associated field experience gives students an opportunity to apply the knowledge and skills learned in the course, which will include an evaluation of each candidate's ability to use Value Added assessment. *Prerequisite: admission to the Teacher Education Program. Corequisites: other courses in the Adolescent and Young Adult Principles of Teaching block.*

<b>EDSE-4450</b> <b>Adolescent/Young Adult Clinical Experience—Fa</b> 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. <i>Prerequisite: admission to the Teacher Education Program. Corequisites: other courses in the Adolescent and Young Adult Principles of Teaching block.</i> (Fee: \$90)	<b>3 hours</b>	<b>EDSP-3100</b> <b>Diagnostics and Intervention in Reading—Fa, Sp</b> 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. <i>Prerequisite: EDEC-2300 Phonics and the Reading Process. For Early Childhood majors. Corequisite: other courses in the Methods I block.</i> (Fee: \$60)	<b>3 hours</b>
<b>EDSE-4880</b> <b>Topics in Adolescent and Young Adult Education—Fa, Sp, Su</b> 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. <i>Prerequisite: faculty advisor or instructor's permission.</i>	<b>1–3 hours</b>	<b>EDSP-3150</b> <b>Intervention and Diagnosis in Reading for Special Educators—Sp</b> 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.</i> (Fee: \$60)	<b>3 hours</b>
<b>EDSE-4900</b> <b>Student Teaching and Seminar: Adolescent / Young Adult—Fa, Sp</b> A teaching experience in an adolescent/young adult setting under the supervision of the mentor teacher and the University supervisor. Required seminars encourage reflection on the teaching experience, as well as discussion of issues of importance to educators. (Fee: \$550)	<b>12 hours</b>	<b>EDSP-3500</b> <b>Special Education Law—Su</b> 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. <i>Prerequisites: Introduction to Education block, Corequisites: Introduction block may be taken during the same summer.</i>	<b>1 hour</b>
<b>Special Education (EDSP)</b>			
<b>EDSP-2000</b> <b>Teaching Children with Exceptionalities—Fa, Sp</b> An exploration of the implications of federal laws with an emphasis on the definitions, characteristics, and strategies for intervention in inclusive settings. The course includes an introduction to the use of assistive technology. <i>Prerequisite: EDUC-1000 The Education Profession. Corequisites: other courses in the Introduction to Teaching block.</i>	<b>1 hour</b>	<b>EDSP-3950</b> <b>Special Education Clinical: Early Childhood—Fa, Sp</b> An introduction to the objectives, skills, instructional strategies, teaching aids, and resource materials for teaching reading and the language arts to students with and without mild–moderate needs at the early childhood level. <i>Prerequisites: admission to the Teacher Education Program; major in special education. Corequisite: other courses in the Early Childhood Methods I block.</i> (Fee: \$135)	<b>3 hours</b>
<b>EDSP-2050</b> <b>Field Experience: Exceptional Learning Needs—Fa, Sp</b> A field-based experience in special education in which the teacher candidate observes and participates with classroom personnel in assisting students with accentuated learning needs. <i>Prerequisites: COM-1100 Fundamentals of Speech; ENG-1400 Composition; EDUC-1000 The Education Profession. Corequisites: other courses in the Introduction to Teaching block.</i>	<b>1 hour</b>	<b>EDSP-4100</b> <b>Adaptive Curriculum and Instruction—Fa</b> An introduction to the curriculum, intervention strategies, instructional materials, and educational technology used with students with mild–moderate special educational needs. <i>Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the Special Education block.</i>	<b>2 hours</b>
<b>EDSP-2400</b> <b>Language Development and Communication Disorders—Sp</b> 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. (Fee: \$10).	<b>2 hours</b>	<b>EDSP-4150</b> <b>Career and Occupational Training—Fa</b> A look at the role of occupational training in the special education curriculum, including the techniques used in developing occupational interests and abilities at various age levels. <i>Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the Special Education block.</i>	<b>2 hours</b>
<b>EDSP-2500</b> <b>Survey of Intellectual and Developmental Disabilities—Fa, Sp</b> 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. <i>Co-requisites: EDSP-2000 Teaching Children with Exceptionalities is to be taken concurrently with this course.</i> (Fee: \$60)	<b>1 hour</b>	<b>EDSP-4250</b> <b>Communication, Collaboration, and Inclusion—Fa, Sp</b> 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. <i>Prerequisite: admission to the Teacher Education Program and completion of Methods I.</i>	<b>2 hours</b>
<b>EDSP-2700</b> <b>Teaching Children with Mild to Moderate Disabilities—Fa</b> An overview of mild to moderate disabilities with a focus on instructional strategies and accommodations for students in inclusive settings. <i>Prerequisite: TEP Acceptance, Early Childhood Methods I.</i> (Fee: \$10)	<b>2 hours</b>	<b>EDSP-4300</b> <b>Behavioral and Instructional Management—Fa</b> A presentation of the learning theory, motivation, and behavioral approaches to management of the social and academic environment of learners with mild–moderate special educational needs. Emphasis is on applied behavior analysis and functional assessment. <i>Prerequisite: admission to the Teacher Education Program. Corequisites: other courses in the Special Education block.</i>	<b>3 hours</b>

**EDSP-4400 Assessment in Special Education–Fa 3 hours**

Study in the administration and interpretation of formal and informal educational assessment instruments to identify and place students with mild–moderate needs in special education and the development of appropriate education goals and objectives. *Prerequisite: admission to the Teacher Education Program. Corequisites: other courses in the Special Education block.*

**EDSP-4450 3 hours****Special Education Clinical: Middle Childhood–Fa, Sp**

An opportunity to implement the objectives, skills, and instructional strategies for teaching mathematics, science, and social studies to students with mild to moderate needs at the middle childhood level. *Prerequisite: successful completion of the Early Childhood Methods I block. Corequisites: other courses in the Early Childhood Methods II block. (Fee: \$135)*

**EDSP-4550 3 hours****Special Education Clinical: Adolescent and Young Adult**

An opportunity to use the skills learned developing and implementing individualized educational plans and behavior intervention strategies for adolescent and young adult students with mild to moderate special educational needs. *Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the Special Education block. (Fee: \$135)*

**EDSP-4880 1–3 hours****Topics in Special Education–Fa, Sp, Su**

Selected topics in special education that will complement or extend existing courses or expose candidates to topics not taught in other courses; may be proposed by an EDSP faculty or student. *Prerequisites: faculty advisor and instructor's permission.*

**EDSP-4900 12 hours****Student Teaching and Seminar: Special Education**

A teaching experience for special education only majors with students who have mild–moderate special educational needs under the supervision of the cooperating teacher and the University supervisor. Seminars encourage reflection on the teaching experience as well as discussion of issues of importance to educators. *Prerequisite: successful completion of the Early Childhood Methods II and Special Education blocks. (Fee: \$550)*

**Education (EDUC)****EDUC-1000 The Education Profession–Fa,Sp 2 hours**

An introduction to the rewards and requirements of the teaching profession, including social issues and historical context of the profession. Focus is on the five domains of good teaching, teacher licensure, professional issues, and an overview of the mission statement, conceptual framework, and requirements of the Teacher Education Program at Cedarville University. (Fee: \$129)

**EDUC-1050 0 hours****Preliminary Student Involvement–Fa, Sp, Su**

Teacher candidates arrange a field experience for five consecutive full days in a public or private P-12 school setting where they observe and participate in classroom activities. A follow-up report is required. *Prerequisite: EDUC-1000 The Education Profession or permission of instructor.*

**EDUC-1800 Principles of Mathematics I–Fa, Sp 3 hours**

A framework for the content of this course is Ohio's Competency Based Comprehensive Programs for Mathematics (NCTM Standards). The course utilizes a problem-solving approach and makes connections to real-world situations and other disciplines. *Prerequisite: EDUC-1000 The Education Profession.*

**EDUC-2000 Introduction to Diverse Learners–Fa, Sp 2 hours**

An introductory survey to the complexities of the education, as well as cultural competency issues that accompany various aspects of multicultural education. General overview of the racial, social and cultural aspects of teaching students from diverse backgrounds, particularly as they relate to urban schooling. Initial aspects of teaching and classroom management are introduced and demonstrated. *Prerequisites: EDUC-1000 The Education Profession; ENG-1400 Composition; COM-1100 Fundamentals of Speech. Corequisites: EDSP-2000 Teaching Children with Exceptionalities; EDSP-2050 Field Experience: Exceptional Learning Needs; EDUC-2200 Multicultural Field Experience. (Fee: \$65)*

**EDUC-2100 Technology in the Classroom–Fa, Sp 2 hours**

Teacher candidates learn to use a wide range of technology for developing and enhancing classroom instruction. The course will require the completion of various projects and assignments that provide students with a better understanding of the multifaceted demands on a 21st century K–12 classroom teacher. *Prerequisite: EDUC-1000 The Education Profession.*

**EDUC-2200 Multicultural Field Experience–Fa 1 hour**

An introduction to the professional side of schooling through a four-week field experience in a multicultural school setting. Some field-based assignments focus on issues of multicultural education. *Prerequisites: EDUC-1000 The Education Profession; ENG-1400 Composition; COM-1100 Fundamentals of Speech. Corequisites: other courses in the Introduction to Teaching block. (Fee: \$90)*

**EDUC-2400 Children's Literature–Fa, Sp 3 hours**

A survey of the early history, major types, and modern trends of literature for children in preschool through grade 5. The social and personal value of literature is studied along with methods for using trade books for reading instruction. *Prerequisite: EDUC-1000 The Education Profession.*

**EDUC-2500 Educational Psychology–Fa, Sp 3 hours**

An introduction to the principles of child and adolescent development, learning theories, and the principles and processes that affect teaching and learning. The course focuses on learning theory and the skills necessary to create and maintain an optimal learning environment in a diversity of settings. *Prerequisite: EDUC-1000 The Education Profession.*

**EDUC-2600 Topics in Children's Literature–Su 3 hours**

An overview of current topics and trends in children's literature. May be credited toward the reading/language arts middle school concentration. Offered during Summer School Session III and intermittently by arrangement with instructor. *Prerequisite: EDUC-2400 Children's Literature or permission of department Chair.*

**EDUC-2800 Principles of Mathematics II–Fa, Sp 3 hours**

A course building on the NCTM standards-based framework begun in Principles of Math I and including a development of new mathematical topics that are connected to real world situations and other disciplines. *Prerequisite: EDUC-1800 Principles of Mathematics I.*

**EDUC-3100 3 hours****Philosophical Foundations of Education–Fa, Sp**

A study of the institutional development of schooling in the United States. Examines the biblical foundations for education and engages in a critical analysis of foundational educational philosophies and their impact on Christian approaches to education. Examines current and historical philosophical, social, and economic issues and how these affect the principles and practices of American schooling.

**EDUC-3200 Faith and Learning Alignment**—Fa, Sp 1 hour

An introduction into the principles and practices of biblical integration in the K-12 school settings. Course examines the theological and theoretical foundations of biblical integration and prepares the teacher candidate to align curriculum and instructional techniques to their teaching/licensure area.

*Prerequisite: Admission to the Teacher Education Program.*

*Corequisite: Enrollment in appropriate methods of teaching block for licensure area.*

**EDUC-3560** 3 hours**Practicum in Educational Technology**—Fa, Sp, Su

A placement in a K–12 setting under the supervision of a qualified technology director during which the Teacher Education Program candidate assists in operation of the technology program.

*Prerequisite: completion of 75% of the computer/technology endorsement or permission of instructor.*

**EDUC-3570 Supervised Field Experience** 1–3 hours

A 30–90 clock hour supervised placement in an early, middle, and/or adolescent/young adult classroom. Designed to give a transfer teacher candidate, an early childhood education candidate seeking a Reading Endorsement, or a teacher candidate repeating other field experiences the necessary P-12 supervised experience needed to meet program requirements.

**EDUC-3990 Independent Study in Education** 1–3 hours

An investigation of contemporary topics in education through reading, writing, or creative projects. *Prerequisite: 15 semester hours in education.*

**EDUC-4000** 3 hours**Reading in the Content Area**—Fa

An introduction to the range of strategies and programs for learning and teaching the reading process, including the nature of the reading process, assessment techniques, and instructional strategies to provide increased comprehension of the textual material of the disciplines represented by students in the class. This course is for Adolescent and Young Adult Mathematics and Multi-Age Music and Health and Physical Education Teacher Education Program majors. This course will be taught in online format. *Prerequisite: admission to the Teacher Education Program or senior status and permission of department Chair.*

**EDUC-4850 Internship in Applied Education** 3–12 hours

Juniors and seniors who have been accepted into the Teacher Education Program may, with the approval of the School of Education Dean, engage in an internship that involves the meaningful use of knowledge gained in previous education courses and experiences. A school faculty member will assist with the internship, arrangements, and evaluation of the experience. The school Dean will approve the number of credit hours to be granted for the experience. *Prerequisite: permission of the School of Education Dean.* (Fee: \$25)

**EDUC-4880** 10 hours**Student Teaching (Nonlicensure) and Seminar**—Sp

A teaching experience working with students in a range of age levels under the supervision of the cooperating teacher and University supervisor. Seminars encourage reflection on the teaching experience as well as discussion of issues of importance to educators. *Prerequisite: Completion of all TEP requirements except internship.* (Fee: Early Childhood \$220; Middle Childhood \$250; Adolescent and Young Adult Education \$220; Special Education \$220; Multi-Age \$250; and Early Childhood/Special Education \$340)

**EDUC-4900** 12 hours**Student Teaching and Seminar: Multi-Age**—Fa, Sp

A teaching experience working with students in a range of age levels under the supervision of the mentor teacher and the University supervisor. Seminars encourage reflection on the teaching experience as well as discussion of issues of importance to educators. Capstone for the Multi-Age Physical Education Major. (Fee: \$550)

**EDUC-4910 Special Student Teaching** 3–10 hours

Occasionally, unusual situations arise that entail special provisions (e.g., summer school student teaching for experienced teachers, repeated experiences, etc.). (Fee: \$100)

**EDUC-4950** 12 hours**Student Teaching and Seminar in Special Education and Early Childhood**—Fa, Sp

A full semester teaching experience with significant exposure in both special education and early childhood education settings. The student teacher will work under the supervision of cooperating teachers and University supervisors in each field. Seminars encourage reflection upon the teaching experience and discussion of issues of importance to educators. (Fee: \$640)

## School of Engineering and Computer Science Course Descriptions

### Computer Science (CS)

**CS-1210 C++ Programming**—Fa, Sp 2 hours

Introduction to computer programming, software engineering principles, structured program design and implementation, using the C++ programming language; students will become familiar with common commands for managing the file system and constructing programs in the Linux operating system. Two lecture hours and one one-hour laboratory per week. (Fee: \$50)

**CS-1220 Object-Oriented Design Using C++**—Fa, Sp 3 hours

Continuation of CS-1210 C++ programming to include pointers, and abstract data types; advanced topics include exception handling, event-driven programming, and graphical user interface (GUI); principles of object-oriented design are applied to programming tasks in both the Linux and Windows environments. *Prerequisite: CS-1210 C++ Programming.* (Fee: \$50)

**CS-2210 Data Structures Using Java**—Fa, Sp 3 hours

Introduction to the proper use of data structures for developing efficient software; data structures include stacks, queues, priority queues, hash tables, trees, and graphs. Students will develop skill in object-oriented design and the Java programming language. Design project required. *Prerequisite: CS-1220 Object-Oriented Design Using C++.* (Fee: \$50)

**CS-3310 Operating Systems**—Fa, Sp 3 hours

A state-of-the-art survey of operating system principles. Covers fundamental technology and contemporary design issues such as threads, real-time systems, multiprocessor scheduling, distributed systems, and security. Course content is developed through lectures, student research of the relevant literature, presentations, and programming projects using both C++ and Java. *Prerequisite: CS-1220 Object-Oriented Design Using C++.* (Fee: \$50)

**CS-3350 Foundations of Computer Security**—Sp 3 hours

Introduction to computer security, including basic concepts, security policy, access control, authentication and key control, and cryptography. Students will complete several programming assignments. *Prerequisites: CS-1220 Object-Oriented Design Using C++.* (Fee: \$50).

**CS-3410 Algorithms–Fa 3 hours**

Introduction to classical algorithms that have broad application in solving computer science problems; topics include analysis of algorithms, advanced data structures, graph algorithms, numerical methods, and NP-completeness. *Prerequisite:* CS-2210 *Data Structures Using Java*; MATH-2510 *Discrete Math for Computer Science* (Fee: \$50)

**CS-3510 Compiler Theory and Practice–Sp 3 hours**

Introduction to the foundational technology of modern compilers, with emphasis on underlying theory and practical techniques for implementing a compiler by applying object-oriented and appropriate data structures. Design project typically developing a compiler is required. *Prerequisite:* CS-3410 *Algorithms*. (Fee: \$50)

**CS-3610 Database Organization and Design–Sp 3 hours**

Introduction to the analysis, design, and implementation of relational databases and the Structured Query Language (SQL); topics include data modeling techniques, data model to logical schema conversion techniques, relational algebra, SQL, database file organizations, query evaluation, transaction management, and client-server application architectures. Design project required. *Prerequisites:* CS-2210 *Data Structures Using Java*. *Corequisite:* MATH-2510 *Discrete Mathematics for Computer Science*. (Fee: \$50)

**CS-3920 Computer Science Internship–Fa, Sp 1–3 hours**

An opportunity for a computer science student to work closely with an industrial advisor. Specific attention is given to solving a particular problem(s) in the industry or firm. A faculty advisor assists in supervising and approving the internship, including assessing the number of credit hours. A final report (approximately seven pages per credit hour) describing the experience, including the problem and solution, is required. Must be arranged with a faculty sponsor and work supervisor before starting. No more than one hour of CS-3920 can be used to fulfill program technical elective requirements. *Prerequisites:* junior or senior computer science major status; faculty advisor permission.

**CS-3950 Topics in Computer Science–Fa, Sp, Su 1–3 hours**

Selected topics in computer science at the 3000-level that will complement or extend existing 2000- and 3000-level courses or expose students to topics not taught in other courses. Topics may be proposed by the computer science faculty or students. *Prerequisite:* permission of instructor.

**CS-3980 1–3 hours**

**Independent Study in Computer Science–Fa, Sp, Su**

Opportunity to perform independent study or research in computer science and allied fields of application. A formal proposal for study must be approved by the faculty advisor before registering for this course. *Prerequisites:* junior or senior computer science or engineering major status, and permission of instructor.

**CS-3220 Web Applications–Sp 3 hours**

Introduction to the design and implementation of web-based applications. Technologies such as HTML5, CSS3, Javascript, JQuery, PHP, Java Servlets, XML, and MySQL are explored. Multiple design projects required. *Prerequisite:* CS-2210 *Data Structures Using Java*. (Fee: \$50)

**CS-4410 Parallel Computing–Fa 3 hours**

Introduction to the exploitation of parallelism to solve computational intensive problems; emphasis is placed on both the message passing (using MPI) and the shared memory paradigms; projects are required using both paradigms. Crosslisted as CS and EGCP. *Prerequisites:* CS-3310 *Operating Systems*. *Corequisite:* CS-3410 *Algorithms*; permission of instructor. (Fee: \$50)

**CS-4710 Computer Graphics–Fa 3 hours**

Introduction to three-dimensional computer graphics and computer game content creation and programming. Topics include geometric modeling and common game engine capabilities; techniques for enhancing realism such as local lighting effects, texture, transparency, and physical modeling; and common computations in the rendering pipeline such as model transformations, clipping and culling, shading, rasterization and collision detection. Group design project required. *Prerequisite:* MATH-2510 *Discrete Math for Computer Science*. *Corequisite:* CS-3410 *Algorithms*. (odd years) (Fee: \$50)

**CS-4810 Software Engineering I–Fa 3 hours**

The capstone design experience for computer science majors. Introduction to software engineering principles focusing on requirement development, detailed design, project scheduling and management, quality assurance, and testing. Student teams meet regularly to develop a project management plan, a requirements document and a detailed design and begin to implement their project that will be completed in CS-4820. *Prerequisite:* CS-3220 *Web Applications*; CS-3610 *Database Organization and Design*; CS-3410 *Algorithms*. (Fee: \$50)

**CS-4820 Software Engineering II–Sp 4 hours**

Continuation of CS-4810 Software Engineering I. Student teams will complete the implementation, testing, and release of their capstone project, submit regular progress reports, prepare a final report, and make a formal project presentation. *Prerequisite:* CS-4810 *Software Engineering*. (Fee: \$50)

**CS-4950 Advanced Topics in Computer Science 1–3 hours**

Selected topics in computer science at the 4000-level that expand the depth of existing 3000- and 4000-level courses or that expose the students to advanced concepts not taught in other courses. *Prerequisite:* permission of instructor.

**CS-4980 Independent Study in Computer Science 1–3 hours**

Opportunity to perform independent study or research in computer science and allied fields of application. A formal proposal for study must be approved by the faculty advisor before registering for this course. *Prerequisites:* junior or senior computer science or engineering major status, permission of instructor.

**Computer Engineering (EGCP)**

**EGCP-1010 Digital Logic Design–Fa, Sp 3 hours**

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, design and data communications. *Prerequisite:* EGCP-1010 *Digital Logic Design*; CS-1210 *C++ Programming*. (Fee: \$100)

**EGCP-3010 Advanced Digital Logic Design–Sp 3 hours**

Advanced treatment of digital logical design techniques and practices with emphasis on rapid electronic prototyping and effective use of advanced computer-aided design tools; schematic, textual, and VHDL design entry; arithmetic circuits, advanced finite-state machines, and advanced controller implementations. Three lecture hours per week with periodic integrated laboratory; multiple projects and laboratory experiences including a class design contest usually involving a robot. *Prerequisites:* EGCP-1010 *Digital Logic Design*; CS-1210 *C++ Programming*; junior status or permission of instructor. (Fee: \$100)



**EGCP-3210 Computer Architecture–Sp 3 hours**

Introduction to computer architecture with an emphasis on hardware, RISC vs. CISC, pipeline and vector processing, I/O, and memory hierarchy including caches. Students design and construct a small microprocessor using a logic simulator and then write an assembler for their processor. *Prerequisites: EGCP-1010 Digital Logic Design; CS-1210 C++ Programming.*

**EGCP-3920 Computer Engineering Internship 1–3 hours**

An opportunity for a computer engineering student to work closely with an industrial advisor. Specific attention is given to solving a particular problem(s) in that industry or firm. A faculty advisor assists in supervising and approving the internship, including assessing the number of credit hours. A final report (approximately seven pages per credit hour) describing the experience, including the problem and solution, is required. Must be arranged with a faculty sponsor and work supervisor before starting and cannot be used to satisfy elective credit requirements. *Prerequisites: junior or senior engineering major status; faculty advisor's permission.*

**EGCP-3950 Topics in Computer Engineering–Fa, Sp 1–3 hours**

Selected topics in computer engineering at the 3000-level that will complement or extend existing 2000- and 3000-level courses or expose students to topics not taught in other courses; may be proposed by the engineering faculty or students. *Prerequisite: instructor's permission.*

**EGCP-3980 1–3 hours****Independent Study in Computer Engineering**

Opportunity to perform independent study or research in computer engineering and allied fields of application. A formal proposal for study must be approved by the faculty advisor before registering for this course. Up to three credit hours of engineering electives can be satisfied by an equivalent number of independent-study hours. *Prerequisites: junior or senior engineering major status; faculty advisor's permission.*

**EGCP-3990 1–3 hours****Project Design in Computer Engineering**

An elective course for students to get academic credit for extracurricular design work in computer engineering; project may be related to a design competition, ministry, industry, or personal interest. Cannot be used to satisfy engineering elective requirements. *Prerequisite: instructor's permission.*

**EGCP-4210 Advanced Computer Architecture–Fa 3 hours**

Advanced study of computer architecture with an emphasis on performance, performance metrics, benchmarks, integer and floating point concepts, data-path and control, super-scalar processing and pipelining, memory hierarchy, I/O and peripherals, vector, array and parallel processors, and multiprocessors. *Prerequisites: EGCP-3210 Computer Architecture. (Fee: \$100)*

**EGCP-4250 CMOS VLSI Design–Sp 3 hours**

Introduction to CMOS VLSI design with emphasis on circuit analysis, modeling, mask layout, simulation, and design verification; both theoretical concepts and CAD tools are used together for circuit design and verification. Three lecture hours per week with integrated laboratory. *Prerequisite: EGEE-3210 Electronics I.*

**EGCP-4310 Computer Networks–Fa 3 hours**

Introduction to the basic concepts of computer networking. The course will present the layered network architecture protocols and examine each of the layers in depth. Important topics such as packet switching, internetworking, client-server computing, wireless networking, and network security will be addressed. *Prerequisites: CS-2210 Data Structures Using Java; Corequisite: CS-3310 Operating Systems. (Fee: \$50)*

**EGCP-4410 Parallel Computing–Fa 3 hours**

Introduction to the exploitation of parallelism to solve computationally intensive problems; explores schemes for achieving parallelism, architectures required for parallel computing, performance analysis, and parallel algorithm design; uses common standards for message passing (e.g., MPI), local clusters and remote supercomputer systems. Crosslisted as CS and EGCP. *Prerequisites: CS-3310 Operating Systems. Corequisite: CS-3410 Algorithms; permission of instructor. (Fee: \$50) (even years)*

**EGCP-4810 4 hours****Computer Engineering Senior Design I–Fa**

Design and development of electronic products to meet specific requirements. Introduction to computer system design, power supply design, hardware-software co-design, software engineering, system performance trade-offs, electronic design tools, prototype methods, estimating and managing time and cost constraints, and project management. Student teams prepare a project proposal, design and prototype a microprocessor-based system or sub-system, use computerized design tools, submit weekly progress reports, and conduct design reviews. Three lecture hours and one two-hour laboratory per week. *Prerequisite: EGEE-3210 Electronics I, CS-3410 Algorithms, CS-3310 Operating Systems, and Senior status in computer engineering Corequisite: EGCP-4210 Advanced Computer Architecture. (Fee: \$100)*

**EGCP-4820 4 hours****Computer Engineering Senior Design II–Sp**

Continuation of EGCP-4810 Computer Engineering Senior Design I. Student teams will complete their capstone project, submit weekly progress reports, prepare a formal final report, and make a formal design review presentation. *Prerequisite: EGCP-4810 Computer Engineering Senior Design I. (Fee: \$100)*

**EGCP-4950 1–3 hours****Advanced Topics in Computer Engineering**

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

**Electrical Engineering (EGEE)****EGEE-2010 Circuits–Sp 5 hours**

Introduction to basic circuit analysis using Ohm's law, Kirchoff's laws, independent and dependent sources, Thévenin and Norton equivalency and source transformations, transient responses in RC, RL, and RLC circuits, phasor analysis of RLC circuits, power in AC circuits, introduction to 3-phase circuits, mutual inductance, frequency response, Transforms, Laplace circuit analysis, Fourier Series, and introduction to transfer functions. Computer simulations and bread-board circuits are constructed and evaluated in the laboratory. Four lecture hours and one two-hour laboratory per week. *Prerequisites: PHYS-2120 General Physics II; MATH-2740 Differential Equations. (Fee: \$100)*

**EGEE-2050 Circuits and Instrumentation–Sp 4 hours**

Introduction to basic circuit analysis using Ohm's law, Kirchoff's laws, independent and dependent sources, Thévenin and Norton equivalency and source transformations, transient responses in RC, RL, and RLC circuits, operational amplifiers, and introduction to polyphase AC circuits. Circuit applications for transducers such as resistance strain gages, piezoelectric load cells, piezoelectric accelerometers, and thermocouples are emphasized along with measurement uncertainty analysis and statistical methods. Circuits are designed, simulated, constructed, and tested in the laboratory. Three lecture hours and one two-hour laboratory per week. This course does not satisfy the EGEE-2010 Circuits requirement for the Electrical or Computer Engineering majors.

*Prerequisites:* PHYS-2120 *General Physics II*; MATH-2740 *Differential Equations*. (Fee: \$100)

**EGEE-2110 Engineering Analysis–Sp 3 hours**

This course introduces students to mathematical tools used by electrical engineers. Topics include theory and engineering applications of complex variables, linear algebra, and probability and statistics as well as the numerical solution of basic differential equations. Students are introduced to the Matlab computing environment. *Prerequisites:* CS-1210 *C++ Programming*; MATH-1720 *Calculus II*. *Corequisites:* MATH-2740 *Differential Equations*.

**EGEE-3110 Linear Systems–Fa 3 hours**

Introduction to linear time-invariant analysis of continuous and discrete-time systems, using both time and frequency domain methods that include convolution, Fourier Series, Fourier, Laplace, and Z transforms; classical and computer solution methods are utilized. *Prerequisite:* EGEE-2010 *Circuits*.

**EGEE-3150 Analog Filters–Sp 3 hours**

Introduction to theory, design, and implementing passive and active analog filters; basic filter structures, passive network synthesis, operational amplifier limitations, multiple-amplifier filters, and filter realization methods. *Prerequisite:* EGEE-3110 *Linear Systems*. (even years)

**EGEE-3210 Electronics I–Fa 3 hours**

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)

**EGEE-3220 Electronics II–Sp 5 hours**

Continuation of EGEE-3210 Electronics I to include differential amplifiers, frequency response of amplifier circuits, multi-stage amplifiers, power amplifiers, feedback circuits, power supplies, filters, digital logic families, and oscillators. Four lecture hours and one two-hour lab per week. *Prerequisite:* EGEE-3210 *Electronics I*. (Fee: \$100)

**EGEE-3310 Electromagnetics–Sp 3 hours**

Engineering applications of vector calculus, phasors, and Maxwell's equations to electrostatic, magnetostatic and time varying fields, transmission lines, Smith Chart, propagation of uniform plane waves, and single-stub matching. Laboratory exercises introduce field-plotting, transmission line concepts using wave guides, single stub-tuning, introduction to the network analyzer, polarization, and radiation fields. Two lecture hours and one two-hour laboratory or recitation period per week. *Prerequisites:* MATH-2710 *Calculus III*; EGEE-2010 *Circuits*. (Fee: \$100)

**EGEE-3330 Communications Theory–Sp 4 hours**

Introduction to analog and digital communications theory. Probability and random processes are developed to facilitate noise analysis in modulation techniques. Three lecture hours and one two-hour laboratory per week; design project required. *Prerequisite:* EGEE-3110 *Linear Systems*. (Fee: \$100)

**EGEE-3370 3 hours****Probability and Random Processes for Engineers–Sp**

Introduction to sample points, sample spaces, probability, random variables, random vectors, statistical averages, linear transformations, random processes, linear system response to stochastic input, spectral analysis with application of the central-limit theorem, and Gaussian processes to engineering problems. May be used to satisfy the mathematics elective requirement for electrical engineers. *Prerequisite:* EGEE-3110 *Linear Systems*.

**EGEE-3510 Power Electronics–Sp 3 hours**

Introduction to the fundamentals of power electronics, characteristics and application of semiconductor switches, motor control, device applications, and power processing design. Design project required. *Prerequisite:* EGEE-3210 *Electronics I*. (odd years)

**EGEE-3530 Electrical Machines–Fa 3 hours**

Introduction to the fundamentals of power circuits and the principles of analysis and characteristics of transformers and AC and DC rotating machines. Two lecture hours and one two-hour laboratory per week. *Prerequisite:* EGEE-2010 *Circuits*; or EGEE-2050 *Circuits and Instrumentation*. (Fee: \$100)

**EGEE-3920 Electrical Engineering Internship 1–3 hours**

An opportunity for an electrical engineering student to work closely with an industrial advisor. Specific attention is given to solving a particular problem(s) in that industry or firm. A faculty advisor assists in supervising and approving the internship, including assessing the number of credit hours. A final report (approximately seven pages per credit hour) describing the experience, including the problem and solution, is required. Must be arranged with faculty sponsor and work supervisor before starting and cannot be used to satisfy elective credit requirements. *Prerequisites:* junior or senior engineering major status; faculty advisor's permission.

**EGEE-3950 Topics in Electrical Engineering–Fa, Sp 1–3 hours**

Selected topics in electrical engineering at the 3000-level that will complement or extend existing 2000- and 3000-level courses or expose students to topics not taught in other courses; may be proposed by the engineering faculty or students. *Prerequisite:* instructor's permission.

**EGEE-3980 1–3 hours****Independent Study in Electrical Engineering**

Opportunity to perform independent research or study in electrical engineering and allied fields of application. A formal proposal for study must be approved by the faculty advisor before registering for this course. Up to three credit hours of engineering electives can be satisfied by an equivalent number of independent-study hours. *Prerequisites:* junior or senior engineering major status and faculty advisor's permission.

**EGEE-3990 1–3 hours****Project Design in Electrical Engineering–Fa, Sp**

An elective course for students to get academic credit for extracurricular design work in computer engineering; project may be related to a design competition, ministry, industry, or personal interest. Cannot be used to satisfy engineering elective requirements. *Prerequisite:* instructor's permission.

**EGEE-4110 Digital Signal Processing–Fa 2 hours**

Introduction to digital signal processing with emphasis on FIR and IIR filter design, application of Z-transforms and Fourier Transforms, spectral analysis, realization and frequency response of discrete-time systems, and properties and design of FIR and IIR filters with infinite and finite word-length processors. Filter designs are implemented in Matlab. Design project required. *Prerequisites:* EGEE-3110 *Linear Systems*; CS-1210 *C++ Programming*.

**EGEE-4120 Digital Image Processing–Sp 3 hours**

Introduction to digital image processing. Topics include linear filtering in the spatial and frequency domains, morphology, image segmentation, wavelets, image compression, and pattern recognition. *Prerequisites: EGEE-3110 Linear Systems.* (even years)

**EGEE-4310 RF Circuit Design–Fa 3 hours**

Introduction to the characteristics of noise and nonlinearity in radio-frequency (RF) circuit, scattering parameters and two-port network model, impedance matching techniques, and the radio transmitter and receiver architecture. Topics of designing the circuit of low noise amplifier, mixers, oscillators, RF filters, and power amplifier will be covered. Student will learn to use the state-of-the-art CAD tool and vector network analyzer. *Prerequisites: EGEE-3220 Electronics II, EGEE-3330 Communications Theory.* (Fee: \$100)

**EGEE-4330 3 hours****Advanced Communications and Networks–Fa**

Analysis of the performance of analog and digital communication systems and networks in the presence of noise, M-ary signals, signal space concepts, orthogonal signals, and introduction to communication networks. *Prerequisite: EGEE-3330 Communications Theory. Corequisite: EGEE-3370 Probability and Random Processes for Engineers or instructor's permission.*

**EGEE-4410 Feedback Control Systems–Fa 4 hours**

Introduction to the analysis and design of analog feedback control systems with emphasis on modeling, transfer functions, root locus, frequency response, Bodé plots, Nyquist Criterion, stability, compensator design for performance and robustness, PID, phase-lead, phase-lag, lead-lag, and performance indices. Three lecture hours and one two-hour laboratory or recitation per week. Design project required. *Prerequisite: EGEE-3110 Linear Systems.* (Fee: \$100)

**EGEE-4450 Digital Control Systems–Sp 3 hours**

Introduction to analysis and design of discrete-time sampled-data control systems, signal sampling, A/D and D/A conversion, quantization, application of Z-domain transfer function techniques, transient response, frequency response, stability and performance of computer controlled systems, digital compensation, and controller design. Design project required. *Prerequisite: EGEE-4410 Feedback Control Systems.*

**EGEE-4510 Power Systems–Sp 3 hours**

Principles of electrical power generation, transmission, and distribution, three-phase power circuits, power system analysis, load flow, symmetrical components, fault currents, system protection, and stability. *Corequisite: EGEE-3310 Electromagnetics.* (Fee: \$50) (even years)

**EGEE-4610 Medical Imaging–Sp 3 hours**

Introduction to the physics, phenomenology, and engineering aspects of major medical imaging modalities: photon radiation, radiography, computed tomography, ultrasound, and magnetic resonance imaging. Matlab will be used to process imagery. *Prerequisite: EGEE-3110 Linear Systems.* (odd years)

**EGEE-4810 4 hours****Electrical Engineering Senior Design I–Fa**

Design and development of electronic products to meet specific requirements using the top-down design method. Introduction to project management, reliability, probability and statistics with engineering applications, serial communication protocols, product cost and safety, electronic design tools, prototype methods, noise, and circuit-board layout. Student teams prepare a project proposal, design and prototype electronic systems using modern technologies and tools, and conduct design reviews both written and oral. Three lectures and one two-hour lab per week. *Prerequisites: EGEE-3220 Electronics II; EGCP-2120 Microcontrollers; EGEE-3110 Linear Systems; senior status in electrical engineering.* (Fee: \$100)

**EGEE-4820 4 hours****Electrical Engineering Senior Design II–Sp**

Continuation of EGEE-4810 implementing the top-down design method. Students design, build, and test a working electronic product to meet specific requirements within budget. Engineering time, team management costs, and component costs are incorporated into the total cost and grade for the final product. Formal design reports and presentations required. Two three-hour laboratories per week. *Prerequisite: EGEE-4810 Electrical Engineering Senior Design I.* (Fee: \$100)

**EGEE-4950 1–3 hours****Advanced Topics in Electrical Engineering–Sp**

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

**General Engineering (EGGN)****EGGN-1110 The Engineering Profession–Fa 1 hour**

Introduction to the basic concepts and skills necessary to function effectively as a Christian engineer; ethical and moral issues in engineering practice and engineering computer applications. Term project introduces Christian heritage in science and engineering; students participate in group activities and design projects. (Fee: \$50)

**EGGN-1960 Competition Project–Sp 0 hours**

Engineering freshmen on a school of engineering intercollegiate design competition may use this course to provide on their transcript a record of their participation throughout the year. The name of the competition will be designated.

**EGGN-2960 Competition Project–Sp 0 hours**

Engineering sophomores on a school of engineering intercollegiate design competition may use this course to provide on their transcript a record of their participation throughout the year. The name of the competition will be designated.

**EGGN-3110 Professional Ethics–Sp 3 hours**

Introduction to the theories of morality and philosophical issues of determining what is true and what is good. Applications are made to professional conduct, engineer-client relations, and product liability. Legal problems and the engineering code of ethics are discussed from a biblical perspective.

**EGGN-3610 Biomedical Engineering Systems–Sp 3 hours**

Introduction to the field of biomedical engineering and the application of engineering to the field of medicine; fundamental aspects of measuring and modeling physiological systems, biomedical device design, tissue engineering, bioelectric phenomena, biosensors, physiological modeling, biomedical imaging, and biomaterials. Team taught by ME and EE professors. *Prerequisites: Engineering major with junior standing; GBIO-1000 Principles of Biology.* (even years)

**EGGN-3710 2 hours****Biomedical Engineering Research–Fa, Sp, Su**

Student will undertake an original research project under the direction of a departmental faculty mentor, approved mentor within a summer research program, or within an approved academic internship experience. Submission and approval of a research proposal must precede registration. *Prerequisites: major in engineering; minor in biomedical engineering; junior status; permission of advisor, and approval of research topic.* (Fee: \$150)

**EGGN-3910 Co-op I 0 hours**

First term for an engineering or computer science student to work in industry for one semester. A final report is required. Students completing a co-op work assignment and registered for this course are granted full-time student status. *Prerequisite: junior status in engineering or computer science and enrollment in the co-op program.* (Fee \$75).

**EGGN-3911 Co-op IA 0 hours**

First half of the first term for an engineering or computer science student to work in industry part-time for one semester. A final report is required. Students enrolled in part-time co-op must register for six or more credit hours to maintain full-time student status. *Prerequisite: junior status in engineering or computer science and enrollment in the co-op program.* (Fee \$40).

**EGGN-3912 Co-op IB 0 hours**

Second half of the first term for an engineering or computer science student to work in industry part time for one semester. A final report is required. Students enrolled in part-time co-op must register for six or more credit hours to maintain full-time student status. *Prerequisite: EGGN-3911 Co-op IA.* (Fee \$40).

**EGGN-3920 Co-op II 0 hours**

Second term for an engineering or computer science student to work in industry for one semester. A final report is required. *Prerequisite: EGGN-3910 Co-op I or EGGN-3912 Co-op IB.* (Fee \$75).

**EGGN-3921 Co-op IIA 0 hours**

First half of the second term for an engineering or computer science student to work in industry part time for one semester. A final report is required. Students enrolled in part-time co-op must register for six or more credit hours to maintain full-time student status. *Prerequisite: EGGN-3910 Co-op I or EGGN-3912 Co-op IB.* (Fee \$40).

**EGGN-3922 Co-op IIB 0 hours**

Second half of the second term for an engineering or computer science student to work in industry part time for one semester. A final report is required. Students enrolled in part-time co-op must register for six or more credit hours to maintain full-time student status. *Prerequisite: EGGN-3921 Co-op IIA.* (Fee: \$40).

**EGGN-3930 Co-op III 0 hours**

Third term for an engineering or computer science student to work in industry for one semester. A final report is required. *Prerequisite: EGGN-3920 Co-op II or EGGN-3922 Co-op IIB.* (Fee: \$75). May be repeated.

**EGGN-3931 Co-op IIIA 0 hours**

First half of the third term for an engineering or computer science student to work in industry part time for one semester. A final report is required. Students enrolled in part-time co-op must register for six or more credit hours to maintain full-time student status. *Prerequisite: EGGN-3920 Co-op II or EGGN-3922 Co-op IIB.* (Fee \$40). May be repeated.

**EGGN-3932 Co-op IIIB 0 hours**

Second half of the third term for an engineering or computer science student to work in industry part time for one semester. A final report is required. Students enrolled in part-time co-op must register for six or more credit hours to maintain full-time student status. *Prerequisite: EGGN-3931 Co-op IIIA.* (Fee \$40). May be repeated.

**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 majors to discuss the transition into the professional work environment. *Prerequisite: senior status in engineering or computer science.* (Fee: \$35)

**EGGN-4960 Competition Project–Sp 0 hours**

Engineering seniors on a school of engineering intercollegiate design competition may use this course to provide on their transcript a record of their participation throughout the year. The name of the competition will be designated.

**Mechanical Engineering (EGME)****EGME-1810 Engineering Graphics–Fa 1 hour**

Introduction to basic techniques of sketching, drawing, dimensioning, multiple views, sectioning, multi-view projections, and pictorial views. Introduction to commercial software for three-dimensional solid modeling and preparing engineering drawings. (Fee: \$25)

**EGME-2050 Computational Methods–Sp 4 hours**

Introduction to computer programming and the numerical methods for solving roots of equations, simultaneous linear algebraic equations, ordinary differential equations, integration, introduction to finite-difference approximations, and least-squares curve fits. *Pre- or Corequisites: MATH-2710 Calculus III; MATH-2740 Differential Equations.*

**EGME-2410 Properties of Engineering Materials–Fa 4 hours**

Introduction to the properties of metallic, ceramic, polymeric, and composite materials; plastic deformation, strengthening, fracture, fatigue, corrosion, diffusion, equilibrium and nonequilibrium processes, phase diagrams, electrical and magnetic properties, and application to materials selection. Three lecture hours and one two-hour laboratory per week. *Prerequisite: EGME-2530 Statics and Mechanics of Materials.* (Fee: \$100)

**EGME-2430 3 hours****Contemporary Manufacturing Processes–Fa**

Contemporary processing techniques of materials including machining, casting, forming, hot and cold working; conventional, NC, and CNC machining as well as 3D printing; inspection techniques, quality control, and production methods. *Prerequisites: EGME-2410 Properties of Engineering Materials.* (Fee: \$55)

**EGME-2510 Statics–Fa 3 hours**

Introduction to analyzing forces in isolated and connected rigid-body systems; vector analysis, forces, moments, resultants, two- and three-dimensional equilibrium, centroids, moment of inertia, friction, trusses, frames, and machines. Design project required. *Prerequisites: EGME-1810 Engineering Graphics; PHYS-2110 General Physics I; MATH-1720 Analytical Geometry and Calculus II.* (Fee: \$10)

**EGME-2530 Statics and Mechanics of Materials–Fa 5 hours**

Introduction to analyzing forces in isolated and connected rigid-body systems; vector analysis, forces, moments, resultants, two- and three-dimensional equilibrium, centroids, distributed loading, moment of inertia, friction, trusses, frames, and machines. Introduction to the theoretical and experimental analysis of deformable bodies subject to applied loads; normal and shear stress and strain, strain energy, torsion, stresses in beams, deflection of beams, combined stress, stress transformation, failure theories, and buckling of columns. Design project required. *Prerequisites: EGME-1810 Engineering Graphics; PHYS-2110 General Physics I; MATH-1720 Calculus II.* (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. *Prerequisites: EGME-1810 Engineering Graphics; MATH-1720 Calculus II; PHYS-2110 General Physics I.* (Fee: \$10)

**EGME-2630 Dynamics–Sp 3 hours**

Introduction to kinematic and kinetic analysis of particles, systems of particles, and rigid bodies; position, velocity, acceleration, non-rotating and rotating frames of reference, Newton's laws, work, energy, impulse, momentum, conservative and non-conservative systems, and vibration of single-degree-of-freedom systems. Design project required. *Prerequisite: EGME-2510 Statics or EGME-2530 Statics and Mechanics of Materials.* *Pre- or Corequisite: MATH-2740 Differential Equations.* (Fee: \$10)

- EGME-3010 Mechanical Engineering Laboratory I–Fa** **2 hours**  
Experiments using the wind tunnel, engine test cell, testing machines in the mechanics laboratory, vibrations laboratory, fluids laboratory, refrigeration laboratory, and heat transfer laboratory are conducted. Students measure mechanical phenomena such as acceleration, force, pressure, temperature, strain, fluid flow, viscosity, and heat transfer using transducers, instrumentation, and PC-based data acquisition. Students design some of the experiments. Two 2-hour laboratories per week. *Prerequisites:* EGME-2630 Dynamics; EGEE-2050 Circuits and Instrumentation. *Corequisites:* EGME-3110 Thermodynamics; EGME-3210 Fluid Mechanics. (Fee: \$100)
- EGME-3020 Mechanical Engineering Laboratory II–Sp** **2 hours**  
Continuation of EGME-3010. Two two-hour laboratories per week. *Prerequisite:* EGME-3010 Mechanical Engineering Laboratory I. *Corequisite:* EGME-3150 Heat Transfer. (Fee: \$100)
- EGME-3050 Introduction to Finite Element Analysis–Sp** **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. *Prerequisites:* EGME-2050 Computational Methods; EGME-2530 Statics and Mechanics of Materials. (Fee: \$25)
- EGME-3110 Thermodynamics–Fa** **5 hours**  
Introduction to engineering thermodynamics, properties of pure substances, work, heat, first and second laws of thermodynamics, energy, enthalpy, and entropy. Specific application to power, refrigeration cycles, and combustion processes. *Prerequisites:* CHEM-1050 Chemistry for Engineers; MATH-2710 Calculus III.
- EGME-3130 Internal Combustion Engines–Sp** **3 hours**  
Introduction to internal combustion engines, fuel-air cycles, engine simulation, emissions, engine performance and alternative fuels. *Prerequisites:* EGME-2630 Dynamics; EGME-3110 Thermodynamics.
- EGME-3150 Heat Transfer–Sp** **3 hours**  
Introduction to conduction, convection, and radiation heat transfer in one and two dimensions; free and forced convection, analytical and computational techniques applied to Fourier's Law of conduction, Newton's Law of cooling, and Stefan-Boltzman's Law of thermal radiation. A heat exchanger design project is required. *Prerequisites:* EGME-3110 Thermodynamics; EGME-3210 Fluid Mechanics. *Corequisite:* EGME-2050 Computational Methods.
- EGME-3170 Thermal Systems–Sp** **2 hours**  
Introduction to engineering thermodynamics, properties of pure substances, work, heat, enthalpy, and first law of thermodynamics. Introduction to conduction and convection modes of heat transfer. *Prerequisites:* CHEM-1050 Chemistry for Engineers; MATH-2740 Differential Equations.
- EGME-3210 Fluid Mechanics–Fa** **3 hours**  
Introduction to fluid properties, fluid statics, and the concepts, definitions, and basic equations for subsonic fluid dynamics; Navier-Stokes equation, viscous and inviscid fluid flows, potential flow analysis, boundary layers, laminar and turbulent flows, analytical and computational solutions, vector fields, and finite-integral-control-volume method. *Prerequisites:* MATH-2710 Calculus III; MATH-2740 Differential Equations.
- EGME-3430 Principles of Physical Metallurgy–Sp** **3 hours**  
Introduction to the physical and mechanical properties of metals and alloys; crystal structure, phase equilibria, defects, strengthening mechanisms, and kinetics of reactions. *Prerequisite:* EGME-2410 Properties of Engineering Materials.
- EGME-3450 Plastic and Composite Materials–Sp** **2 hours**  
Introduction to the properties and processing of plastics, resins, and adhesives; rheology, creep-deformation history, and injection molding. Fiber-reinforced, carbon-carbon, and metal-matrix composites are analyzed for strength, anisotropy, and applicability. *Prerequisite:* EGME-2410 Properties of Engineering Materials.
- EGME-3610 Kinematics and Design of Machines–Sp** **3 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. *Prerequisite:* EGME-2630 Dynamics. (Fee: \$40)
- EGME-3850 Mechanical Design–Sp** **3 hours**  
Further development of load determination, stress, strain, deflection and failure theories; integration of an iterative problem solver in the design process; and analysis of fatigue failure. Introduction to the design of mechanical components including shafts, keys, couplings, bearings, gears, springs, and fasteners. *Prerequisite:* EGME-2410 Properties of Engineering Materials. *Corequisites:* EGME-3020 Mechanical Engineering Laboratory II; EGME-3610 Kinematics and Design of Machines. (Fee: \$25)
- EGME-3920 Mechanical Engineering Internship** **1–3 hours**  
An opportunity for a mechanical engineering student to work closely with an industrial advisor. Specific attention is given to solving a particular problem(s) in that industry or firm. A faculty advisor assists in supervising and approving the internship, including assessing the number of credit hours. A final report (approximately seven pages per credit hour) describing the experience, including the problem and solution, is required. Must be arranged with faculty sponsor and work supervisor before starting and cannot be used to satisfy elective credit requirements. *Prerequisites:* junior or senior engineering major status; faculty advisor's permission.
- EGME-3950 Topics in Mechanical Engineering–Fa, Sp** **1–3 hours**  
Selected topics in mechanical engineering at the 3000-level that will compliment or extend present 2000- or 3000-level courses or expose students to topics not taught in other courses; may be proposed by the engineering faculty or students. *Prerequisite:* instructor's permission.
- EGME-3980 Independent Study in Mechanical Engineering** **1–3 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. *Prerequisites:* junior or senior engineering major status; faculty advisor's permission.
- EGME-3990 Project Design in Mechanical Engineering** **1–3 hours**  
An elective course for students to get academic credit for extracurricular design work in mechanical engineering; project may be related to a design competition, ministry, industry, or personal interest. Cannot be used to satisfy engineering elective requirements. *Prerequisite:* instructor's permission.

- EGME-4050** **2 hours**  
**Finite Difference Methods In Engineering–Fa**  
 Finite-difference approximations for derivatives and differential equations applied to solve engineering problems; consistency, stability, truncation error, and introduction to grid generation. *Prerequisites: EGME-2050 Computational Methods; MATH-2710 Calculus III.*
- EGME-4060** **2 hours**  
**Computational Fluid Dynamics–Sp**  
 Introduction to computational fluid dynamics for solving 2-D and 3-D engineering problems. Formulations of the Navier-Stokes equations will be examined. The basis of the numerical methods in advanced CFD commercial codes will be studied for understanding how to intelligently use engineering software to solve problems. Topics include: formulation of new problems, generating CAD grids, identifying and writing appropriate boundary/initial conditions, selecting solution techniques and turbulence models available in the code, and running and interpreting the validity of the results. *Prerequisites: EGME-3210 Fluid Mechanics; EGME 4050 Finite Difference Fluid Methods.*
- EGME-4160 Radiation and Solar Energy–Fa** **2 hours**  
 Introduction to the fundamentals of radiation heat transfer including shape factors, wave-length dependence, and material properties. Applications to solar energy engineering and design problems. *Prerequisite: EGME-3150 Heat Transfer.*
- EGME-4250 Propulsion–Fa** **2 hours**  
 Introduction to the principles of thrust production, compressible flow of gases, thermodynamics of jet propulsion systems, and parametric performance analysis of jet engines. *Prerequisites: EGME-3110 Thermodynamics; EGME-3210 Fluid Mechanics.*
- EGME-4270 Compressible Fluid Flow–Sp** **2 hours**  
 Introduction to the compressible flow of gases in engineering systems; isentropic flow in variable-area passages, shock and expansion waves; and flow with wall friction and heat transfer. *Prerequisites: EGME-2050 Computational Methods; EGME-3110 Thermodynamics; EGME-3210 Fluid Mechanics.*
- EGME-4410** **3 hours**  
**Introduction to Fracture Mechanics–Sp**  
 Introduction to failure modes caused by static and dynamic loading, brittle fracture criteria, elastic behavior, stress fields around cracks, fatigue failure, stress corrosion cracking, and strain hardening mechanisms. *Prerequisite: EGME-2410 Properties of Engineering Materials.*
- EGME-4530 Advanced Mechanics of Materials–Fa** **3 hours**  
 Advanced treatment of stress and strain including coordinate transformations, the eigenvalue problem, Mohr's circle and linear constitutive equations. Failure theories and energy methods, including Castigliano's theorems, are studied; applications to classical topics including analysis of beams with non-symmetrical sections, non-circular torsion, thin-wall beams, and beams on elastic foundations. *Prerequisite: EGME-2530 Statics and Mechanics of Materials.*
- EGME-4560 Biomechanics and Biomaterials–Sp** **3 hours**  
 Introduction to biomechanics of the human body, reactions of biological tissue and synthetic materials to load, and the biomechanics of biomaterials. Advanced mechanical analysis of rigid and deformable bodies and fluid mechanics applied to bone, muscle, connective tissue and blood. This course will provide foundational knowledge to the engineering student for occupations in medical device manufacturing, health and sport sciences industries, and advanced fields of study. *Prerequisites: EGME-2410 Properties of Engineering Materials, PHYS-2120 General Physics II and MATH-2740 Differential Equations. (odd years)*
- EGME-4610 Dynamics of Machines–Fa** **3 hours**  
 Dynamic analysis of machines and mechanisms; Newton's laws of motion, energy methods, force analysis, shaking forces, static and dynamic balancing, engine dynamics, multi-cylinder engines, and cam dynamics. *Prerequisite: EGME-3610 Kinematics and Design of Machines.*
- 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** **3 hours**  
**Random Vibrations and Signature Analysis**  
 Introduction to vibration analysis of discrete and continuous systems to random excitation, harmonic vibration, transient response, convolution integral, Laplace and Fourier Transform, Discrete Fourier Transform, Fast Fourier Transform, random variables, coherence, correlation, auto- and cross-correlation, power spectral density, transfer function, and modal analysis; experience using a commercial FFT analyzer. Design project required. *Prerequisite: EGME-4710 Vibrations.* (Fee: \$100)
- EGME-4810** **3 hours**  
**Mechanical Engineering Senior Design I–Fa**  
 This is the senior capstone design project for mechanical engineers. Student teams work independently on a design project to find a solution consistent with stated specifications using principles studied in previous courses. Work in this semester includes writing the proposal and performing background research and preliminary design. Students conduct a mid-term design review and end-of-semester oral and written presentation. Projects are advised by a faculty committee; course includes weekly written progress reports and meetings with the faculty project advisor. *Prerequisites: EGME-3850 Mechanical Design; EGME-3610 Kinematics and Design of Machines; EGME-3150 Heat Transfer; EGME-3020 Mechanical Engineering Lab II; and senior status.* (Fee: \$100)
- EGME-4820** **3 hours**  
**Mechanical Engineering Senior Design II–Sp**  
 A continuation of EGME-4810, emphasizing detailed design, prototyping, troubleshooting, design modifications, project completion, reporting, and oral presentation. Students submit written progress reports and attend meetings each week with the faculty project advisor, conduct an oral presentation, and prepare the final report. *Prerequisite: EGME-4810 Mechanical Engineering Senior Design I.* (Fee: \$100)

**EGME-4950****1–3 hours****Advanced Topics in Mechanical Engineering–Sp**

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

## Department of English, Literature, and Modern Languages Course Descriptions

### Arabic Language (ARBC)

**ARBC-1400****3 hours****Introduction to Arabic Language and Culture**

Introduction of the Arabic script and basic vocabulary used for greetings and other everyday situations. Introduction to various aspects of Arab culture, including history, religion, literature, politics, and daily life. This course is intended for non-native speakers with no previous Arabic study. *This course satisfies the global awareness course requirement.*

**ARBC-1410 Elementary Arabic I–Fa****4 hours**

Development of basic skills in reading, writing, speaking, and listening in Arabic, along with an introduction to Arabic culture.

**ARBC-1420 Elementary Arabic II–Sp****4 hours**

Development of basic skills in reading, writing, speaking, and listening in Arabic, along with an introduction to Arabic culture.

*Prerequisites: ARBC-1410 Elementary Arabic I, instructor's approval, or placement by exam.*

**ARBC-2410 Intermediate Arabic I–Fa****4 hours**

Development of all four language skills through grammar review, composition, conversation, and readings in Arabic literature and culture. *Prerequisites: ARBC-1410 Elementary Arabic I and ARBC-1420 Elementary Arabic II, instructor's approval, or placement by exam.*

**ARBC-2420 Intermediate Arabic II–Sp****3 hours**

Development of all four language skills through grammar review, composition, conversation, and readings in Arabic literature and culture. *Prerequisites: ARBC-1410 Elementary Arabic I, ARBC-1420 Elementary Arabic II, ARBC-2410 Intermediate Arabic I, instructor's approval, or placement by exam.*

**ARBC-3500****1–3 hours****Independent Study in Arabic Language and Culture–Fa, Sp**

This course gives opportunity for independent study in a particular area of Arabic language and culture for students who demonstrate special interests and ability.

### Chinese (CHN)

**CHN-1100 Elementary Chinese I–Fa, Sp****4 hours**

This course will teach students elementary levels of Chinese language proficiency in Mandarin or Putonghua. Students will develop skills in listening, speaking, reading, and writing in Chinese.

**CHN-1200 Elementary Chinese II–Fa, Sp****4 hours**

This course will teach students elementary levels of Chinese language proficiency in Mandarin or Putonghua. Students will develop skills in listening, speaking, reading, and writing in Chinese. *Prerequisite: CHN-1100 Elementary Chinese I.*

### English (ENG)

**ENG-1000 Basic English–Fa****3 hours**

Study of nomenclature, identification, and application in the linguistic process. Admission by departmental designation only. May not be applied toward the hours needed for graduation.

**ENG-1400 Composition–Fa, Sp****3 hours**

Designed to assist the student in developing the skills necessary to meet the demands of typical writing situations, both academic and professional. The course will introduce the student to the common expository writing methods of description, narration, analysis, persuasion, and research presentation. (Fee: \$25)

**ENG-2070 Fundamentals of English Grammar–Fa, Sp****3 hours**

This course is a foundational course for preservice language arts educators and is a prerequisite for Advanced Grammar. It covers forms and functions of words, pronoun/antecedent agreement, subject/verb agreement, and pedagogy.

**ENG-2210 Principles of Journalism–Fa, Sp****3 hours**

An introductory study of the fundamental skills needed for collecting, organizing, writing, editing, and evaluating material for the common types of news stories, along with a consideration of ethical and legal issues for the print journalist. Strong emphasis on developing journalistic writing skills. *Prerequisite: ENG-1400 Composition.*

**ENG-2220 Introduction to Creative Writing–Fa, Sp****3 hours**

This course is a prerequisite requirement for any 3000-level creative writing course. The course covers basic instruction in technique and style for all three genres of creative writing: fiction, creative nonfiction, and poetry. *Prerequisite: ENG-1400 Composition.*

**ENG-2230 Advanced Composition–Fa, Sp****3 hours**

An advanced treatment of the composing process, particularly related to the planning, drafting, revision, and final composition of essays. Writing workshops and peer evaluations are included. *Prerequisite: ENG-1400 Composition.*

**ENG-3010 Style and Mechanics for Writers–Fa, Sp, Su****3 hours**

Students will learn to apply reliable principles to make writing clear, concise, coherent, and cohesive. (Crosslisted with PWID-3010 Style and Mechanics for Writers) *Prerequisite: ENG-1400 Composition.*

**ENG-3020 Creative Writing: Short Forms–Su****3 hours**

Intensive summer study in the writing of specific and various short forms in creative writing (selected by instructor); utilizing a "workshop" approach, with a focus on the completion of a final portfolio. Topics may include, but are not limited to, flash-fiction, the prose poem, and the creative nonfiction short. *Prerequisite: ENG-2230 Advanced Composition.*

**ENG-3030 Creative Writing: Fiction–Sp****3 hours**

Workshop approach to studying, creating, and responding to short stories. Course focuses on the elements of the modern short story from Chekhov forward. Emphasis is on traditional literary fiction; the course does not cover science fiction, fantasy, adolescent fiction, or children's literature. *Prerequisite: ENG-1400 Composition; ENG-2220 Introduction to Creative Writing.*

**ENG-3040 Creative Writing: Poetry–Sp****3 hours**

Provides guided practice, instruction in craft, constructive criticism, and a supportive atmosphere. Students should leave the course with more confidence about how to read and write poetry, as well as knowledge of the tradition, issues, and forms of poetry. *Prerequisite: ENG-1400 Composition; ENG-2220 Introduction to Creative Writing.*

**ENG-3050 Creative Writing: Nonfiction–Sp****3 hours**

Intensive study in writing literary nonfiction. Course focuses on sub-genres in contemporary nonfiction: the personal essay, autobiography/the memoir, the short, reportage. Workshop and conference approach. *Prerequisite: ENG-1400 Composition; ENG-2220 Introduction to Creative Writing.*

**ENG-3060 The English Language–Fa****3 hours**

Historic treatment of the growth and change in the English language with some attention to the ideologies implicit in the development of variant conventions. *Prerequisite: ENG-1400 Composition.*

**ENG-3070 English Grammar–Fa, Sp 3 hours**

In this course, students will study the conventions of the English language, which include the grammar and syntax of standard English. Students will use Reed and Kellogg traditional sentence diagrams to analyze and to represent the syntax of English sentences. The course also includes discussions about contemporary usage. Required of all majors with English as a teaching field. *Prerequisite for adolescent and young adult language arts majors only: ENG-2070 Fundamentals of English Grammar.*

**ENG-3180 Visual Rhetoric–Fa 2 hours**

Students will be given an overview of visual design principles and practices related to the technical communication field. During the course, students will build their design acumen by reading widely and by participating and leading coherent, comprehensive discussions. Students will also practice their growing design expertise by critiquing various visual treatments, writing a treatise on the Christian approach to visual communication, and by analyzing visual communication through the lens of a Christian worldview.

**ENG-3220 Advanced Journalism–Sp 2 hours**

Designed for the student who anticipates writing as a vocation or avocation. The emphasis is on reporting and writing for newspapers and magazines. Topics of study include: beat reporting, developing the in-depth features and series, investigative practices, standards and ethics, community and publisher relations, and manuscript production. *Prerequisite: ENG-2210 Principles of Journalism.*

**ENG-3300 Developmental Reading–Sp 3 hours**

Includes basic philosophies, testing, evaluation, clinical methods, and materials utilized in the prescriptive teaching of basic reading skills in the language arts content area for adolescent/young adult teachers. Field and clinical experiences included. *Prerequisite: admission to the Teacher Education Program.* (Fee: \$25)

**ENG-3550 Writing Center Theory and Training–Sp 2 hours**

Designed to orient students to writing center theory and practice. Will train students for employment opportunities in the writing center. *Prerequisite: ENG-1400 Composition; permission of instructor.*

**ENG-3620 Practicum in Journalism–Fa, Sp 1 hour**

Experience in the varied tasks of the journalistic enterprise. *Prerequisite: ENG-2210 Principles of Journalism.*

**ENG-4030 Advanced Workshop: Fiction–Fa 2 hours**

Course provides an opportunity to do high-level work in fiction writing. Workshop environment will be rigorous and diagnostic, but also supportive. *Prerequisite: ENG-3030 Creative Writing: Fiction* (odd years)

**ENG-4040 Advanced Workshop: Poetry–Sp 2 hours**

Course provides an opportunity to do high-level work in poetry. Workshop environment will be rigorous and diagnostic, but also supportive. *Prerequisite: ENG-3040 Creative Writing: Poetry* (odd years)

**ENG-4050 Advanced Workshop: Nonfiction–Sp 2 hours**

Course provides an opportunity to do high-level work in creative nonfiction. Workshop environment will be rigorous and diagnostic, but also supportive. *Prerequisite: ENG-3050 Creative Writing: Nonfiction.* (even years)

**ENG-4200 Methods of Teaching Writing–Fa 2 hours**

This course will prepare students to teach writing. Course content will include instructional methodology and conferencing and assessment techniques. *Prerequisite: EDSE-4100 Principles of Teaching: Adolescent and Young Adult; currently enrolled in student teaching or by permission of instructor.*

**ENG-4230 Independent Study in English–Fa, Sp 1–3 hours**

Independent study in a selected field for students with special interests and demonstrated ability.

**ENG-4345 1 hour****Creative Writing: Portfolio and Performance–Fa, Sp**

Course provides an opportunity to prepare a final collection of creative writing in close consultation with the advising professor. Students will also organize and present a public reading of their work. *Prerequisite: any two 4000-level creative writing workshops.*

**Film (FILM)****FILM-2350 Christian Motifs in Film–Sp 3 hours**

Study of depictions of Christ and Christ-figures as well as other Christian motifs in film. This course will provide a detailed introduction to the characteristics of the Christ-figure and its most common manifestations in film. The course will focus on viewing and evaluating films containing Christian motifs such as redemption, sacrifice, sin, and faith. This course may be used to satisfy the general education humanities elective requirement.

**French (FREN)****FREN-1910 4 hours****Elementary French I–Fa, Sp**

Development of basic skills in reading, writing, speaking, and listening in French, along with an introduction to French culture.

**FREN-1920 4 hours****Elementary French II–Sp**

Development of basic skills in reading, writing, speaking, and listening in French, along with an introduction to French culture.

**FREN-2910, 2920 Intermediate French I and II–Fa 4/3 hours/sem**

Development of all four language skills through grammar review, composition, conversation and readings in French literature and culture. *Prerequisite: FREN-1920 Elementary French II; instructor's approval or placement by exam.*

**FREN-3910 French Conversation–Fa 3 hours**

Designed to increase the student's aural comprehension and oral communication in French. Attention given to pronunciation, vocabulary building, communication strategies, and effective cross-cultural communication. *Prerequisite: FREN-2920 Intermediate French II; instructor's approval or placement by exam.*

**FREN-3920 Contemporary French Culture–Sp 3 hours**

Exploration of beliefs, behaviors, and values of Francophone cultures through a comparative approach that provides a framework for describing France and the French in relation to others and themselves. *Prerequisite: FREN-2920 Intermediate French II; instructor's approval or placement by exam.*

**FREN-3930 Survey of French Literature–Sp 3 hours**

This course focuses on a sampling of French literature selections set in historical context. The course includes readings from major French and Francophone authors. Students will gain knowledge of the literature, analyze the techniques used, and gain cultural background and understanding. *Prerequisite: FREN-2920 Contemporary French Culture or permission of instructor.*

**German (GER)****GER-1810, 1820 4 hours/sem****Elementary German I–Fa and II–Sp**

Development of basic skills in reading, writing, speaking, and listening in German, along with an introduction to German culture.

**GER-2810, 2820 Intermediate German I and II 4/3 hours/sem**

Development of all four language skills through grammar review, composition, conversation, and readings in German literature and culture. *Prerequisite: GER-1820 Elementary German II 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—Fa 3 hours**

Oral practice in German through speeches and oral reports along with a review of pronunciation. Designed to improve both day-to-day communication and academic communication. *Prerequisite: GER-2820 Intermediate German or equivalent.* (even years)

**GER-3820 Germanic History and Culture—Fa, Su 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—Sp 3 hours**

A survey of German literature from the Middle Ages through the 20th century designed to provide the student with an understanding of the literature and its reflection of the culture. Readings in German and English. *Prerequisite: GER-2820 Intermediate German or equivalent.*

**Linguistics (LING)**

**LING-2070 Introduction to Linguistics—Fa 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.

**LING-3082 Phonetics—Fa 3 hours**

Phonetics is the study and classification of speech sounds, within the broader study of phonology, the study of the sound system of language. This course builds on the theories of phonology and provides opportunities for practical application of the theories. Students will work with the International Phonetic Alphabet (IPA) in classifying sounds in standard and nonstandard forms of English and will consider and classify the sounds of other languages. *Prerequisites: LING-2070 Introduction to Linguistics; LING-3080 Linguistics for Language Learning.*

**LING-3090 Sociolinguistics—Sp 3 hours**

An overview of the relationship between language and society. Topics covered include ethnicity, social contact, change, and issues related to minority students such as education, immigration, migration, demographics, and historical and legal precedents. The student will also gain knowledge and cultural understanding of minority groups in Ohio. (even years)

**LING-3100 Principles of Language Acquisition—Fa 3 hours**

The practical side of the study of linguistics is the study of how language is acquired, both by children learning to speak and by adults learning a second language. This course will present the basic theories of both types of language acquisition and will provide students the opportunity to do original research in the field. *Prerequisites: LING-3080 Linguistics for Language Learning.*

**LING-3500 Methods of Teaching Foreign Language—Fa 2 hours**

Examination of the purposes and objectives along with the methods used in the K–12 foreign language classroom instruction. The student studies the effect of cognitive, affective, and socio-cultural variables on second (new) language acquisition. The student is given the opportunity to establish goals and objectives and design curricula that reflect Ohio's grade-level learning outcomes in content areas, as well as to develop strategies that promote language-based English learning for K–12 grade-level students. *Open only to TESOL endorsement teacher candidates and TESOL minors.*

**LING-3710 TESOL Practicum for Non-Education Majors—Sp 2 hours**

Practice teaching of ESL under general supervision of master teacher for non-education majors who are completing TESOL minor requirements. *Prerequisite: COM-2140 Intercultural Communication; ENG-3070 English Grammar; LING-3080 Linguistics for Language Learning; LING-3500 Methods of Teaching Foreign Language.* Credit/No Credit. (Fee: \$45)

**LING-4100 Advanced Linguistics/Field Methods—Sp 3 hours**

This course is the capstone course for the major in linguistics. In this course, students will put into practical application the theories and concepts learned while completing the requirements for the major. *Prerequisites: LING-2070 Introduction to Linguistics; LING-3080 Linguistics for Language Learning; LING-3082 Phonetics; LING-3090 Sociolinguistics; LING-3100 Principles of Language Acquisition.*

**Literature (LIT)**

**LIT-1990 First-Year Seminar 3 hours**

This course will provide instruction in the close reading of and the analytical writing about literary texts. *Prerequisites: ENG-1400 Composition.*

**LIT-2090 Literary Analysis—Fa, Sp 3 hours**

Introductory study of basic textual analysis and traditional contextual analysis. This course is primarily intended for adolescent and young adult integrated language arts and English majors as preparation for upper-division literature courses. *Prerequisite: LIT-1990 First-Year Seminar*

**LIT-2120 History of Literary Criticism—Sp 3 hours**

A study of the rich philosophic heritage of the West, this course is designed to familiarize students with the writers whose works have defined the critical canon as the result of the way they addressed three questions: What is the function of literature? What is the role of an author? How do we evaluate literature? Featured writers will range from Plato, Aristotle, and Augustine to Lewis, Eliot, and Bakhtin. *Prerequisite: ENG-1400 Composition.*

**LIT-2130 Dramatic Literature—Sp 3 hours**

Survey of major dramatic works from Greek to modern day playwrights, emphasizing the relationships among themes and dramatic construction amid various cultural and historical contexts. Can be applied to meet English or Communication requirements, but not both. *Prerequisite: major status or permission of instructor.*

**LIT-2300 Introduction to Literature—Fa, Sp 3 hours**

Emphasis on developing the ability to read critically and analytically representative examples of literary genres through use of appropriate criteria. *Prerequisite: ENG-1400 Composition.*

**LIT-2330 World Mythology—Fa 3 hours**

Study of mythologies, the theories of myth and myth making, and the incorporation of myth in selected literary works. *Prerequisite: ENG-1400 Composition.*

**LIT-2340 Western Literature—Fa, Sp, Su 3 hours**

Survey of major works of Western literary tradition from Homer to T.S. Eliot. *Prerequisite: ENG-1400 Composition.*

- LIT-2390** **3 hours**  
**Survey of American Literature to 1900**–Fa, Sp  
 Study of prominent American authors from colonial times to 1900. Although this course may be taken for general education credit, it is primarily designed for majors. *Prerequisite: ENG-1400 Composition*
- LIT-2430** **3 hours**  
**Survey of British Literature to 1800**–Fa, Sp  
 Study of various English authors from the Anglo-Saxons to 1800. Although this course may be taken for general education credit, it is primarily designed for majors. *Prerequisite: ENG-1400 Composition.*
- LIT-2440** **3 hours**  
**Survey of British Literature from 1800 to Present**–Sp  
 Study of noteworthy English authors from 1800 to the present. Although this course may be taken for general education credit, it is primarily designed for majors. *Prerequisite: ENG-1400 Composition.*
- LIT-3170** **3 hours**  
**American Literature: 1820–1865**–Sp  
 Intensive study of American authors who are representative of the literary traditions of Romanticism and Transcendentalism and their influence on a period of history often called the American Renaissance. Authors may include Emerson, Thoreau, Fuller, Whitman, Dickinson, Douglass, Jacobs, Stowe, Poe, Hawthorne, Melville, and others. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisite: LIT-2390 Survey of American Literature to 1900.* (even years)
- LIT-3180** **3 hours**  
**American Literature: 1865–1914**–Sp  
 Intensive study of American authors who are representative of the literary traditions of Realism and Naturalism, with attention to their influence on developments in American history between the Civil War and World War I. Authors may include Twain, Howells, James, Wharton, Piatt, Jewett, Freeman, Chesnut, Crane, London, Dreiser, Norris, Alcott, and others. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisite: LIT-2390 Survey of American Literature to 1900.* (odd years)
- LIT-3200** **3 hours**  
**Methods of Teaching Integrated Language Arts**–Sp  
 This course is designed to explore the various methods and materials essential to teaching language arts in the secondary classroom. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisite: EDUC-2000 Introduction to Diverse Learners, currently enrolled in EDSE-3100 Principles of Teaching Adolescent and Young Adult, or permission of instructor.*
- LIT-3230** **1–3 hours**  
**Directed Readings**–Fa, Sp  
 Selected readings designed to strengthen the major by providing primary and secondary material in preparation for an independent study of a major writer, literary genre, or literary period. Upper-level literature courses cannot be used as a substitution for the general education literature requirement.
- LIT-3240** **1–3 hours**  
**Directed Writings**–Fa, Sp  
 Students will work in close consultation with a faculty member on the creation and production of a significant project in one of the following genres: poetry, fiction, creative nonfiction. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisite: any 3000-level creative writing workshop.*
- LIT-3310** **3 hours**  
**The English Novel**–Fa  
 Reading and critical analysis of representative novels written in English. Authors include Fielding, Barnes, Rushdie, Gordimer, and Greene. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisite: LIT-2090 Literary Analysis and LIT-2430 Survey of British Literature to 1800 or LIT-2440 Survey of British Literature from 1800 to Present; or permission of instructor.* (even years)
- LIT-3320** **3 hours**  
**Renaissance Literature**–Sp  
 A study of Metaphysicals, Milton, and other selected Renaissance writers. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisite: LIT-2090 Literary Analysis; LIT-2430 Survey of British Literature to 1800; or permission of instructor.*
- LIT-3330** **3 hours**  
**18th Century British Literature**–Fa  
 Study of British writers from the Restoration through the Age of Johnson. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisite: LIT-2090 Literary Analysis; LIT-2440 Survey of British Literature from 1800 to Present; or permission of instructor.*
- LIT-3340** **3 hours**  
**British Romantic and Victorian Literature**–Sp  
 Study of British romantic and Victorian literature and culture. Authors may include Wordsworth, Coleridge, Keats, Jane Austen, George Eliot, Charles Dickens, Charlotte Bronte, Wilkie Collins, Christina Rossetti, Bram Stoker, and others. *Prerequisite: LIT-2090 Literary Analysis, LIT-2440 Survey of British Literature from 1800 to Present, or permission of instructor.* (odd years)
- LIT-3350** **3 hours**  
**Shakespeare**–Fa  
 Representative comedies, history plays, tragedies, and sonnets. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisite: LIT-2090 Literary Analysis; LIT-2430 Survey of British Literature to 1800; or permission of instructor.*
- LIT-3380** **3 hours**  
**Contemporary British Literature**–Fa  
 Study of representative and significant 20th century British writers, especially those reflective of modern ideologies. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisite: LIT-2090 Literary Analysis; LIT-2440 Survey of British Literature from 1800 to Present; or permission of instructor.*
- LIT-3400** **3 hours**  
**Contemporary Studies in World Literature**–Sp  
 Study of contemporary literature outside the American and British traditions. Writers may include Chinua Achebe, Nadine Gordimer, Duong Thu Huong, Gabriel Garcia Marquez, Haruki Murakami, V.S. Naipaul, Moniru Ravanipur, Jose Saramago, Tatyana Tolstoya, Luisa Valenzuela, Gao Xingjian, and others. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisite: major status or permission of the instructor.* (even years)
- LIT-3420** **3 hours**  
**American Novel**–Fa  
 Study of the historical development of the American novel and an analysis of the writings of major American novelists from Cooper to Roth. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisite: LIT-2090 Literary Analysis; or permission of instructor; or major status.* (odd years)
- LIT-3430** **3 hours**  
**Literature of the American South**–Sp  
 Study of the literature of the American South, covering its historical development, its major themes and authors, and its contemporary status. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisites: major status or permission of the instructor.* (even years)
- LIT-3440** **3 hours**  
**Multiethnic American Literature**–Fa  
 A survey of literature produced by writers from diverse ethnic groups, including (but not limited to) Native American, African American, Chicano, Jewish, and Asian American. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisites: LIT-2090 Literary Analysis, LIT-2390 Survey of American Literature to 1900.*

**LIT-3450 Contemporary Poetry–Fa 3 hours**

This course covers major poetry written by 21st century poets and poetry written in the second half of the 20th century. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisites: ENG-1400 Composition; LIT-2090 Literary Analysis.*

**LIT-3460 Contemporary East Asian Literature–Sp 3 hours**

This course introduces students to contemporary literature from East Asia focusing primarily on works in translation from China, Japan, and Korea. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisites: major/minor status or permission of the instructor. (even years)*

**LIT-3510 Modern American Literature–Sp 3 hours**

Study of major American authors of the 20th century. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisite: LIT-2090 Literary Analysis; LIT-2390 Survey of American Literature to 1900; or permission of instructor.*

**LIT-3520 C.S. Lewis and The Inklings–Sp 3 hours**

Study of Lewis' contributions in the fields of literature, criticism, and apologetics. Special attention will be placed on understanding Lewis' personal and intellectual development, his relationships with contemporary scholars and writers, and his continuing influence. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisite: major status or permission of instructor. (even years)*

**LIT-3530 Graphic Novel–Fa 3 hours**

This course will focus on the emerging literary form of the graphic novel. Students will be introduced to the history and development of sequential art as well as the narrative techniques and conventions used in graphic novels, manga, bandes 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. *Prerequisite: major status or permission of the instructor. (even years)*

**LIT-3540 American Women Writers–Sp 3 hours**

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, Sarapayson 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, Zitkala-SA, Sui Sin Far, Wharton, Loarsen Fauset, Cather, and Hurston. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisite: ENG-1400 Composition. (even years)*

**LIT-4220 English Seminar–Sp 3 hours**

Designed to help the student synthesize their major areas of study. Required of all senior English majors. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. Capstone course.

**LIT-4230 Independent Study in Literature–Fa, Sp 1–3 hours**

Independent study in a selected field for students with special interests and demonstrated ability. Upper-level literature courses cannot be used as a substitution for the general education literature requirement.

**LIT-4310 Literary Theory–Fa 3 hours**

A study of theoretical literary contexts. Special consideration will be given to economic, political, psychological, linguistic and cultural contexts. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisite: LIT-2090 Literary Analysis.*

**LIT-4420 European Novel–Fa 3 hours**

Study of the 19th and 20th century influence on the novel from Balzac to Camus. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisite: major status or permission of instructor.*

**LIT-4450 Milton: Poetry and Selected Prose–Fa 3 hours**

A study of Milton's early poetry, *Paradise Lost*, *Paradise Regained*, *Samson Agonistes*, and selected prose works. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisite: LIT-2090 Literary Analysis; LIT-2430 Survey of British Literature to 1800; or permission of instructor. (even years)*

**LIT-4490 Special Topics–Fa, Sp 1–3 hours**

Investigation of such literary phenomena that have intrinsic worth and engage student interest. Upper-level literature courses cannot be used as a substitution for the general education literature requirement.

**LIT-4510 3 hours****Recent American Literature 1945–Present–Sp**

A study of the social, political, economic, and religious issues that defined the American experience in the last half of the 20th century. Diverse poetry, short stories, drama, novels, and films will be analyzed to give students an understanding of the myriad subjectivities that have shaped American values and attitudes since World War II. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. *Prerequisite: any 2000-level literature course.*

**Spanish (SPAN)****SPAN-1710, 1720 4 hours/sem****Elementary Spanish I and II–Fa, Sp, Su**

Development of basic skills in reading, writing, speaking, and listening in Spanish to satisfy a broad variety of everyday, school, and work situations, along with an introduction to Hispanic cultures.

**SPAN-1740 Intensive Spanish–Su 6 hours**

This course is a six-credit, short-term course designed for students who wish to combine SPAN-1710 Elementary Spanish I and SPAN-1720 Elementary Spanish II. *Prerequisites: minimum GPA 2.0, high school Spanish highly recommended.*

**SPAN-2710, 2720 4/3 hours/sem****Intermediate Spanish I and II–Fa, Sp**

Development of all four language skills through grammar review, composition, conversation, and readings in Spanish literature and culture. *Prerequisite: SPAN-1720 Elementary Spanish, instructor's approval, or placement by exam.*

**SPAN-2760 Spanish For Professionals–Sp 3 hours**

Development of practical Spanish vocabulary and conversational skills related to careers in education, criminal justice, social work, and health care professions. *Prerequisite: SPAN-2720 Intermediate Spanish or permission of instructor. (odd years)*

**SPAN-3350 2 hours****Elementary Education for Foreign Language Teachers–Sp**

An introduction to the teaching of reading, writing, and literacy development as developmental skills for the elementary age learner. Knowledge of elementary school curriculum with an emphasis on using the teaching of foreign language to reinforce the content of the elementary school curriculum. Emphasis on the use of children's literature as a means of teaching foreign language and culture to elementary students. The student will have knowledge of Ohio's model competency-based program and its four stages of language development to guide school foreign language programs. *Open to Multi-age Spanish Education Majors only. Credit/No Credit. (odd years)*

- SPAN-3500 Methods of Teaching Foreign Language–Fa** **2 hours**  
Examination of the purposes and objectives along with the methods and curricular models used in the K–12 foreign language classroom. This course addresses the theories of first and second language acquisition, as well as topics such as the relationship of foreign language learning to other content areas. The student is given information regarding opportunities in planning lessons with appropriate materials, sequencing, and execution of learning activities. Evaluations of student learning, student behavior, and self-evaluation as integral parts of successful teaching are also stressed. The student will also gain insight into the importance of understanding one's own language and culture as a means to understanding the language and culture of the target peoples. *Prerequisites: LING-3100 Principles of Language Acquisition; permission of instructor or adviser. Open to Multi-age Spanish Education majors only.*
- SPAN-3600 Clinical Teaching in Spanish–Fa, Sp, Su** **0–2 hours**  
A practical experience in which a student is assigned to assist a classroom teacher in preparation for classes, grading, and tutoring students. The student is expected to participate in 30 clock hours for each hour of credit divided among early childhood (20 hours), middle childhood (20 hours), and adolescent/young adult (20 hours) contexts. *Prerequisite: admission to the Teacher Education Program.*
- SPAN-3610 Spanish Composition–Fa** **3 hours**  
Emphasis on development of clear, natural, and effective written communication in Spanish. Includes grammar review, vocabulary expansion, discussion of stylistic elements, and practice in writing narrative, descriptive, and several types of expository texts. *Prerequisite: SPAN-2720 Intermediate Spanish or permission of instructor.*
- SPAN-3620 Spanish Conversation–Fa** **3 hours**  
Designed to sharpen the student's communication in oral Spanish and to increase aural comprehension of spoken Spanish. Attention given to pronunciation, vocabulary building, and practice on hearing and speaking through in-class presentations and other activities. Also emphasizes the development of culturally appropriate approaches to communication and comparative study of Anglo and Hispanic cultures. *Prerequisite: SPAN-2720 Intermediate Spanish or permission of instructor.*
- SPAN-3640 Introduction to Hispanic Literature–Sp** **3 hours**  
An introduction to basic concepts and vocabulary relating to literary theory through the study and analysis of representative works in Hispanic poetry, drama, and narrative, with emphasis on contemporary authors. *Prerequisite: SPAN-2720 Intermediate Spanish or permission of instructor.*
- SPAN-3670 Introduction to Translation–Sp** **2 hours**  
An introduction to theory and practice related to bilingual translation and interpreting. Students will learn strategies for translating a variety of text types, as well as the fundamentals of interpreting. *Prerequisite: SPAN-3610 Spanish Composition; or SPAN-3620 Spanish Conversation. (odd years)*
- SPAN-3680 History of Hispanics in the U.S.–Sp** **3 hours**  
Examination of historical and contemporary issues that have affected Hispanic cultures in the U.S. and their views of Anglos, including the immigrant experience. Course taught in English; counts for Global Awareness elective. (even years)
- SPAN-3690 Hispanic Film–Sp** **3 hours**  
Explores the genres of Hispanic film and how these genres portray the cultural, social, and political environments in Spain and the Americas. *Prerequisites: SPAN-3640 Introduction to Hispanic Literature; permission of instructor. (even years)*
- SPAN-4610 Advanced Spanish Grammar–Fa** **3 hours**  
Intensive review of high frequency grammatical structures problematic to non-native speakers of Spanish. Exploration of the history of the language as well as the theoretical aspects of the nature of language and the practical development of written and oral skills in Spanish. *Prerequisite: permission of instructor. (even years)*
- SPAN-4640 Topics in Hispanic Culture–Fa** **3 hours**  
In-depth study of a particular topic of interest either through individual research or group discussion. Orientation may be interdisciplinary or author and genre specific. Capstone course. *Prerequisite: major or minor in Spanish; permission of instructor. (odd years)*
- SPAN-4650 Civilization and Literature of Latin America I–Fa** **3 hours**  
A survey of the geography, history, culture, and literature of Latin America from the pre-Columbian period through the 19th century. Emphasis is on the diversity of Latin American society and the factors that have shaped it. Literary works will be studied for their literary significance within their socio-historical context. *Prerequisite: SPAN-3640 Introduction to Hispanic Literature. (odd years)*
- SPAN-4670 Civilization and Literature of Latin America II–Sp** **3 hours**  
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. *Prerequisite: SPAN-2720 Intermediate Spanish. (odd years)*
- SPAN-4680 Advanced Conversation and Composition–Sp** **2 hours**  
Development of oral and written communication skills at the advanced level as well as expansion of vocabulary dealing with a variety of contemporary topics. *Prerequisite: SPAN-3610 Spanish Composition, SPAN-3620 Spanish Conversation, or permission of instructor. (even years)*
- SPAN-4700 Independent Study in Spanish–Fa, Sp** **1–3 hours**  
Independent and intensive study in a particular area of the Spanish language, literature, or culture for individual students who demonstrate special interests and ability.
- SPAN-4740 Civilization and Literature of Spain I–Fa** **3 hours**  
A study of major literary works of Spain from the medieval and Renaissance periods to the 17th century, with emphasis placed on understanding works within their socio-historical context, as well as their literary significance. Geography, history, and culture of Spain from prehistoric civilizations to the 17th century. *Prerequisites: SPAN-3640 Introduction to Hispanic Literature; permission of instructor. (even years)*
- SPAN-4750 Civilization and Literature of Spain II–Sp** **3 hours**  
A study of major literary works of Spain from the 17th century to the present day, with emphasis placed on understanding works within their socio-historical context, as well as their literary significance. Geography, history, and culture of Spain from the 17th century to present. *Prerequisites: SPAN-4680 Advanced Conversation and Composition; permission of instructor. (even years)*
- SPAN-4790 20th Century Spanish Theatre–Sp** **3 hours**  
Selected reading and analysis of outstanding Peninsular theatre from Benavente, García Lorca, and other post-Civil War period dramatists. *Prerequisites: SPAN-3640 Introduction to Hispanic Literature; permission of instructor. (even years)*

## Department of History and Government Course Descriptions

### Anthropology (ANTH)

#### ANTH-1800 Cultural Anthropology—Fa, Sp 3 hours

Analysis of the concept and its importance for the study of man; an examination of various cultures of the world as they relate to technological, economic, social, political, and religious aspects of these cultures.

#### ANTH-4940 1–3 hours

##### Independent Study in Anthropology

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. *Prerequisite: permission of the instructor.*

### Criminal Justice (CRJU)

#### CRJU-1310 Introduction to Criminal Justice—Fa 3 hours

Introduction to the discipline and institutions of criminal justice in the United States. Law enforcement, the courts, and corrections will be recognized as a system with interacting and interdependent institutions. An understanding and comprehensive view of the formal criminal justice system is essential. (Fee: \$60)

#### CRJU-1350 1 hour

##### Career Planning for the Criminal Justice Professional—Sp

The course is designed to provide an understanding of how to select the right major as a student and how to identify your professional career aspiration. Understanding one's unique skill set, interest, and God's will is paramount to identifying the correct vocation to select. This course will utilize two personal assessment instruments to help students better understand their personal profile in relationship to professional opportunities. Students will learn the fundamentals of how to develop and implement a career plan. *Prerequisite: CRJU-1310 Introduction to Criminal Justice.* (Fee: \$60)

#### CRJU-2200 Criminology—Fa 3 hours

Introduction to the major criminological perspectives regarding crime causation. Selected notorious crimes are considered as case studies to enhance understanding of each perspective. Crosslisted as CRJU or SOC.

#### CRJU-2310 Juvenile Delinquency—Fa 3 hours

Study and assessment of causal theory and problems of correction and prevention of delinquency. Crosslisted as CRJU or SOC (Fee: \$30)

#### CRJU-2840

##### Concepts of Chemical Dependency—Fa, Sp, Su 3 hours

Designed to investigate the concept of chemical dependency. Course emphasis is on the various drugs of abuse and methods of assessment, intervention, and treatment. Crosslisted as CRJU, PSYCH, SOC, or SWK.

#### CRJU-3300 Corrections—Fa 3 hours

In-depth consideration of probation, penology, and community supervision sectors of the field of criminal justice. (Fee: \$30)

#### CRJU-3310 Corrections Administration—Fa 3 hours

Contemporary issues related to management of correctional organizations from the administrator's perspective within the context of legal and political parameters. *Prerequisite: CRJU-1310 Introduction to Criminal Justice.*

#### CRJU-3350 Criminal Law—Sp 3 hours

Focuses on the general classification of criminal offenses, rules of construction, burden and degree of proof, jurisdiction and venue, limitations to criminal prosecution, requirements for criminal liability, culpable mental states, defenses to criminal liability, and elements of criminal offenses. *Prerequisite: CRJU-1310 Introduction to Criminal Justice.*

#### CRJU-3360 American Judicial System—Fa 3 hours

An introduction to federal and state court systems, duties and responsibilities of the prosecutor, defense counsel, jury, and judge including related topics ranging from plea bargaining to sentencing. Crosslisted as CRJU or POLS. *Prerequisite: CRJU-1310 Introduction to Criminal Justice.*

#### CRJU-3390 Criminal Evidence—Sp 3 hours

Focuses on the evidence process applicable to criminal case preparation and presentation in court. Emphasis on types of evidence, tests of admissibility, objections, weight of evidence, witness competency and credibility, defenses, suppressions, order of evidence presentation at trial, and rules of evidence. *Prerequisite: CRJU-1310 Introduction to Criminal Justice.*

#### CRJU-3400 Criminal Procedure—Sp 3 hours

Pertains to procedural law, which governs the enforcement of substantive criminal law. Emphasis on legal authority of law enforcement personnel and rights of the accused person with a review of pertinent U.S. Supreme Court decisions. Consideration is given to various procedural stages from criminal charges through post-conviction appeal. *Prerequisite: CRJU-1310 Introduction to Criminal Justice.*

#### CRJU-3500 3 hours

##### Foundations of Emergency Management—Sp

Intensive study of the community structures that are in place to prepare for, and respond to, community emergencies. Particular emphasis will be given to understanding the various government, nongovernment, and private agencies and organizations that participate in the community preparedness schema, the process of 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. *Prerequisites: CRJU-1310 Introduction to Criminal Justice. (even years)*

#### CRJU-3700 3 hours

##### Financial Management for Social Science Professionals—Sp

Biblical principles of personal financial responsibility and their importance for honoring God, a Christian testimony, and avoiding monetary-corruptive influences in a criminal justice career. Topics in this area include: the biblical basis of work, budgeting, giving, tithing, spending, saving, debt, investing and financial stewardship. *Prerequisites: CRJU 1000-level core courses; ECON-2110 Essentials of Economics; or permission of instructor.*

#### CRJU-3990 Criminal Justice Internship—Fa, Sp, Su 3–12 hours

This internship places students in a professional criminal justice setting where they will gain insight into the practical and challenging situations of a career in criminal justice. Under supervision, students will apply classroom knowledge and contribute to agency operations. Students may earn up to 12 credit hours. *Prerequisite: CRJU 1000 and 2000-level core courses or program director's permission.*

#### CRJU-4150 Homeland Security—Sp 3 hours

This course is a study of the four central missions of domestic security. These areas are: domestic security, emergency preparedness, intelligence gathering and communication, and policy making. *Prerequisite: CRJU-1310 Introduction to Criminal Justice.*

**CRJU-4160****3 hours****International and Domestic Terrorism—Sp**

This course will introduce the student to the reality of domestic and international terrorism from a historical and contemporary perspective. Topics for consideration and study will include the mind and characteristics of the terrorist, the distinction between domestic and international terrorism, the religious terrorist contrasted with the political terrorist, the weapons of the terrorist, the United States government's efforts to control and/or eradicate terrorism, and future predictions relative to terrorist activity. Crosslisted INTL and CRJU. *Prerequisites: CRJU-1310 Introduction to Criminal Justice.* (odd years)

**CRJU-4200 Police Administration—Fa****3 hours**

Focuses on contemporary policing issues and related administrative matters from the perspective of executive leadership. Emphasis on management of organizational resources regarding basic line and staff functions. Consideration is given to contemporary issues of community-oriented policing and federal legislative mandates. Case study is utilized. *Prerequisite: CRJU-1310 Introduction to Criminal Justice.*

**CRJU-4320 Criminal Investigation—Fa****3 hours**

Focuses on criminal investigative methods, identification procedures, crime scene search, categories of physical evidence, evidence collection and preservation, sources of information, interviews, and interrogations. *Prerequisite: CRJU-1310 Introduction to Criminal Justice.*

**CRJU-4440 Special Topics-Criminal Justice****1–3 hours**

Investigation of specific topics in Social Science and History that have intrinsic worth and engage student interest.

**CRJU-4500 Comparative Criminal Justice—Sp****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. *Prerequisites: CRJU-1310 Introduction to Criminal Justice.* (odd years)

**CRJU-4630****3 hours****American Constitutional Law — Civil Liberties and Rights—Sp**

The United States Constitution defines the powers and scope of the American government and delineates the rights and liberties retained by the American people. This course focuses on the Supreme Court's interpretation of those rights and liberties by examining the Court's decisions in their legal and historical contexts. Crosslisted as POLS. *Prerequisites: GSS-1100 Politics and American Culture*

**CRJU-4900 Research Issues in Criminal Justice—Fa****3 hours**

This is a capstone course for criminal justice majors. The course will usually focus on a significant issue in contemporary criminal justice. Major papers will be presented by individual students on sub-categories of the primary topic. Additionally, the course will prepare a project that will be presented in a public forum. *Prerequisite: senior status as a CRJU major.* (Fee: \$100)

**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. *Prerequisite: permission of the instructor.*

**Geography (GEO)****GEO-3040****3 hours****History and Politics of the British Isles and Canada—Sp**

This course examines three countries: the United Kingdom, the Republic of Ireland, and Canada. After an extensive topical history along with a discussion of major prime ministers who served in the 19th and 20th centuries, this course also investigates contemporary issues including foreign policy, recent political debates, secessionist problems in Scotland and Quebec, membership in the European Union, and the ongoing structural changes to government. Crosslisted as HIST, INTL, and POLS. (even years)

**GEO-3080 History of Russia and Eastern Europe—Fa****3 hours**

The course will cover not only Soviet history but also major events of Russian history up to the Bolshevik Revolution. Soviet history will be studied in detail, with attention given to the development of non-Russian peoples in the empire. The political, economic, social, and foreign policy aspects of Soviet history will all be covered, emphasizing Perestroika and the Soviet collapse. Crosslisted as GEO, HIST, INTL, or POLS

**GEO-3200 History and Politics of Latin America—Fa****3 hours**

Analysis of the major historical, political, geographical, social, and diplomatic developments that have shaped contemporary Latin America. Crosslisted as GEO, HIST, INTL, or POLS. (even years)

**GEO-3210 History and Politics of Asia—Sp****3 hours**

Study of the historical, political, geographical, social, and diplomatic developments of Asia from the 18th century to the present. Crosslisted as GEO, HIST, INTL, or POLS. (odd years)

**GEO-3220 History and Politics of the Middle East—Sp****3 hours**

Analysis of the major historical, political, geographical, and social forces, such as religion and nationalism, that have shaped the contemporary Middle Eastern states. Crosslisted as GEO, HIST, INTL, or POLS.

**GEO-3230 History and Politics of Western Europe—Sp****3 hours**

This course will cover the development of Western European history and politics from approximately the year 1900 to the present. Concentration will be on the great European powers, but will include the smaller states. The political, economic, and social histories of the nations of Europe will be covered, as well as several macro-European issues. Crosslisted as GEO, HIST, INTL, or POLS. (odd years)

**GEO-3510****3 hours****World Regional Geography — Western Hemisphere—Fa**

Spatial survey of various regions in the western hemisphere with an emphasis on the cultural, economic, and political developments in relation to the geographical environment.

**GEO-3520****3 hours****World Regional Geography — Eastern Hemisphere—Sp**

Survey of various regions in the eastern hemisphere with an emphasis on the cultural, economic, and political developments in relation to the geographical environment.

**GEO-4440 Special Topics-Geography****1–3 hours**

Investigation of specific topics in Social Science and History that have intrinsic worth and engage student interest.

**GEO-4920****1–3 hours****Independent Study in Geography**

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. *Prerequisite: permission of the instructor.*

## General Social Science (GSS)

**GSS-1100 Politics and American Culture**—Fa, Sp **3 hours**

This course serves as an introductory study of America's constitution and political institutions, with emphases on political participation, political culture, and public policy. (Fee: \$5)

**GSS-3630** **4 hours****Data Analysis and Research Methodology**—Fa, Sp

This course will train social science students in the use of statistical techniques that range from central tendency through bivariate regression, and it introduces students to the primary issues of research methodology, which includes levels of measurement, sampling, internal and external validity, and reliability. Students must also master the use of one piece of statistical software. *Prerequisite: students must have satisfied Cedarville's mathematics proficiency requirement before enrolling in GSS-3630.*

**GSS-3640** **3 hours****Qualitative Methodology and Reasoning**—Fa, Sp

This is a course designed to introduce the students in the social sciences to qualitative, nonstatistical research methods. It includes qualitative, nonstatistical research methods. It includes qualitative research design, literature review, the interpretation of qualitative data, ethnographic methodology, proper methods of observation, interviewing and coding, testing the reliability of data, triangulation, and applying objective criteria to data. Included is an actual research project based on the material in the course.

**GSS-3650 Quantitative Methodology**—Fa, Sp **3 hours**

This course satisfies the statistics and research methodology requirements for several social science majors at Cedarville University. The goals of the course are to introduce students to descriptive and inferential statistical concepts and methods and to familiarize them with quantitative methodology within the social sciences.

**GSS-3810,3820** **1 hour each****Clinical Teaching in the Social Sciences**—Fa, Sp

Practical, on-campus, one credit hour experience in which a student is assigned to assist a college instructor in the preparation of tests and quizzes, grading, research, and other teaching responsibilities. A student will be expected to participate for 30 clock hours for each semester hour of credit. A student may arrange to do either of the following with the director of this experience in their discipline:

1. One 30-hour experience for two different semesters.
2. A 60-hour experience for one semester.

*Prerequisite: admission to the Teacher Education Program.*

**GSS-4810 Policy Formation**—Fa **3 hours**

A core course of the D.C. Semester focusing on policy formation and encouraging appropriate appreciation for and analysis of that process from a biblically informed perspective. *Prerequisite: Acceptance into the D.C. Semester program.*

**GSS-4820 Biblical Principles and Governance**—Fa **3 hours**

A core course of the D.C. Semester focusing on biblical principles related to the role of government, the responsibilities of citizens, and the evaluation of critical issues within the political system. *Prerequisite: Acceptance into the D.C. Semester program.*

**GSS-4990 Social Science/History Internship** **1–16 hours**

Majors who participate in government service, historical research, public administration, international studies, criminal justice, or other approved activities related to the social sciences may earn up to 16 hours of credit.

## History (HIST)

**HIST-1110 United States History I**—Fa, Sp **3 hours****HIST-1120 United States History II**—Fa, Sp **3 hours**

Analysis of the development of the United States from the colonial period to the present. Attention is given to the dominant Christian influences that have tended to mold the philosophy and ideology of our cultural, social, and political development.

**HIST-2000 Introduction to History**—Fa **3 hours**

An introduction to the field of history as it pertains to both the academic and the public historian. Emphasis will be given to historical inquiry, source evaluation, analysis and synthesis, research methodology, formal historical writing, and career opportunities. Introduction to History should be taken in the sophomore year. This does not fulfill the general education requirement for a HIST course.

**HIST-2010 History of Civilization I**—Fa, Sp **3 hours****HIST-2020 History of Civilization II**—Fa, Sp **3 hours**

This survey of human history begins at the advent of civilized life in the ancient Near East and continues into the 20th century. It presents the religious, social, political, and intellectual development of mankind from a Christian interpretive point of view.

**HIST-2100 Ohio History for Educators**—Fa **2 hours**

A survey of the history of the State of Ohio from pre-Colonial background to the present. Examines the settlement of Ohio by various Native American tribes, the early exploration and settlement by European migration and the state's place in national development from the 19th through 21st centuries.

**HIST-3000 Introduction to Historiography**—Fa **3 hours**

Introduction to the history of historical writing, methods of research, and the philosophy of history. Required of history majors. Should be taken in the junior year.

**HIST-3030** **3 hours****History of Christianity: Pre-Reformation**—Sp

Survey of ancient and medieval Church history with emphasis given to doctrinal and institutional developments. (even years)

**HIST-3040** **3 hours****History and Politics of the British Isles and Canada**—Sp

This course examines three countries: the United Kingdom, the Republic of Ireland, and Canada. After an extensive topical history along with a discussion of major prime ministers who served in the 19th and 20th centuries, this course also investigates contemporary issues including foreign policy, recent political debates, secessionist problems in Scotland and Quebec, membership in the European Union, and the ongoing structural changes to government. Crosslisted as GEO, INTL, and POLS. (even years)

**HIST-3050 Renaissance and Reformation Europe**—Fa **3 hours**

A survey of the period spanning the fourteenth through the seventeenth centuries, focusing on the origins, rise, nature, and waning of the Renaissance, especially humanism, and the origins, development, and influence of the Protestant Reformations and the Roman Catholic Counter-Reformation. A special emphasis will be placed on the continuities and discontinuities between the two movements. (even years)

**HIST-3070** **3 hours****Europe in the 18th and 19th Centuries: Continuity and Change**—Sp

A survey of the period spanning the mid-seventeenth century through about 1918, including the Enlightenment. The course will include the many political, social, and ideological changes of the eighteenth and nineteenth centuries. (even years)

**HIST-3080 History of Russia and Eastern Europe–Fa 3 hours**

This course will cover not only Soviet history but also major events of Russian history up to the Bolshevik Revolution. Soviet and Eastern European history will be studied in detail, with attention given to the development of non-Russian peoples in the empire. The political, economic, social, and foreign policy aspects of Soviet Eastern European history will all be covered, emphasizing Perestroika and the Soviet collapse. Crosslisted as GEO, HIST, INTL, or POLS.

**HIST-3110 Early American History–Sp 3 hours**

Analysis of the development of American civilization from colonization to 1820. Political, religious, social, economic, and cultural institutions will be examined. *Prerequisite: HIST-1110 United States History or permission of instructor.*

**HIST-3120 History of Recent and Contemporary America–Fa 3 hours**

Intensive study of the domestic and foreign policies of the United States since 1945. Particular emphasis is given to American society in the 1950's, the Cold War, the Civil Rights Movement, the cultural revolution of the 1960's, American involvement in Vietnam, the Welfare State, Watergate, and the Reagan Revolution.

**HIST-3130 Civil War and Reconstruction–Fa 3 hours**

Study of the sectional crisis, the military and nonmilitary aspects of the Civil War, and the social and political phases of Reconstruction. *Prerequisite: HIST-1110, 1120 United States History. Alternates with HIST-3400 History of American Foreign Policy. (odd years)*

**HIST-3200 History and Politics of Latin America–Fa 3 hours**

Analysis of the major historical, political, geographical, social, and diplomatic developments that have shaped contemporary Latin America. May be credited to geography, history, international studies, or political science. Crosslisted as GEO, HIST, INTL, or POLS. (even years)

**HIST-3210 History and Politics of Asia–Fa 3 hours**

Study of the historical, political, geographical, social, and diplomatic developments of Asia from the 18th century to the present. May be credited to geography, history, international studies, or political science. Crosslisted as GEO, HIST, INTL, or POLS. (odd years)

**HIST-3220 History and Politics of the Middle East–Sp 3 hours**

Analysis of the major historical, political, geographical, and social forces, such as religion and nationalism, that have shaped the contemporary Middle Eastern states. Crosslisted as GEO, HIST, INTL, or POLS.

**HIST-3230 History and Politics of Western Europe–Sp 3 hours**

This course will cover the development of Western European history and politics from approximately the year 1900 to the present. Concentration will be on the great European powers, but will include the smaller states. The political, economic, and social histories of the nations of Europe will be covered, as well as several macro-European issues. Crosslisted as GEO, HIST, INTL, or POLS. (odd years)

**HIST-3300 Modern Church History: Reformation to the Present–Sp 3 hours**

This course examines the institutional, intellectual and external contextual aspects of the Church from the period immediately following the Reformation to the present. Specifically the course will study the external and internal developments of the Christian Church in this period. (odd years)

**HIST-3310 American Church History–Sp 3 hours**

A survey of major trends, ideas and individuals in the history of the Church in America from the 1600s to the present, including the theological roots of American theology. Special attention will be given to the Puritans, Jonathan Edwards, the rise of the Social Gospel and theological liberalism. (odd years)

**HIST-3400 History of American Foreign Policy–Fa 3 hours**

American statesmen have defended the principles of their government and the rights of American citizens in a world of empires and nation-states. This course provides an overview of controversies over independence and imperialism, modern tyranny and regime change, which have marked U.S. foreign policy from the founding to the present day. Crosslisted as INTL or POLS. *Prerequisite: GSS-1100 Politics in American Culture. (even years)*

**HIST-3710 History of Political Thought I: Ancient Through Medieval–Fa 3 hours**

Study of the development of political thought in the ancient and early medieval era with special attention given to the works of Plato and Aristotle. Course may also explore topics in political philosophy. Crosslisted as HIST or POLS.

**HIST-3720 History of Political Thought II: Modern and Contemporary–Sp 3 hours**

Study of the development of political thought in the late medieval era and modern era with special attention given to the works of Thomas Hobbes and Friedrich Nietzsche. Course may also explore topics in political philosophy. Crosslisted as HIST or POLS. *Prerequisite: major or minor in history or political science or permission of instructor.*

**HIST-3730 American Political Thought–Fa 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. *Prerequisites: GSS-1100 Politics and American Culture. (even years)*

**HIST-3750 Social Movements–Fa, Sp 3 hours**

Study of the influence of ideas and institutions upon social movements in America. Crosslisted as HIST or SOC.

**HIST-4050 Diplomacy of the Major Powers–Sp 3 hours**

Examines diplomatic relations among the world's most powerful nations, focusing on 20th century diplomacy and the future of international relations in the 21st century. Crosslisted as HIST, INTL, or POLS. *Prerequisite: POLS/INTL-3650 International Relations or permission of instructor.*

**HIST-4110 Interpretations in American History–Fa 3 hours**

Study of selected historical problems in America. Emphasis placed on new interpretations and their impact.

**HIST-4300 Great Books in History and Politics–Sp 3 hours**

This course will require the student to read a single classic work of history and political thought (or a limited number of related works) and with other students, to closely and critically analyze the argument of the work. Crosslisted as POLS, INTL, PUAD, or HIST. *Prerequisite: GSS-1100 Politics and American Culture (odd years)*

**HIST-4440 Special Topics-History 1–3 hours**

Investigation of specific topics in social science and history that have intrinsic worth and engage student interest.

**HIST-4620 Church and State in America–Fa 3 hours**

This course examines the historical, political, theoretical, and legal relationship between church and state in America. Particular attention will be paid to the American founding and changing perceptions of church and state over time. (odd years)

**HIST-4700 Research in American History–Sp 3 hours****HIST-4710 Research in European History–Sp 3 hours****HIST-4720 Research in Asian History 3 hours**

All majors are required to take either HIST-4700, HIST-4710, or HIST-4720. Each student will prepare a formal monograph. *Prerequisite: major or minor in history. (Fee: \$100)*



**HIST-4900****1–3 hours****Independent Study in History**

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. *Prerequisite: permission of the instructor.*

**International Studies (INTL)****INTL-3040****3 hours****History and Politics of the British Isles and Canada–Sp**

This course examines three countries: the United Kingdom, the Republic of Ireland, and Canada. After an extensive topical history along with a discussion of major prime ministers who served in the 19th and 20th centuries, this course also investigates contemporary issues including foreign policy, recent political debates, secessionist problems in Scotland and Quebec, membership in the European Union, and the ongoing structural changes to government. Crosslisted as GEO, HIST, and POLS. (even years)

**INTL-3080 History of Russia and Eastern Europe–Fa 3 hours**

See course description for GEO-3080 History of Russia and Eastern Europe.

**INTL-3190 Global Issues–Sp****3 hours**

Analysis of the international issues that are shaping our contemporary and future world, ranging from terrorism, the environment, international crime, disease, and collapsing states to the digital revolution and the global economy. Crosslisted as INTL or POLS.

**INTL-3200 History and Politics of Latin America–Fa 3 hours**

See course description for GEO-3200 History and Politics of Latin America. (even years)

**INTL-3210 History and Politics of Asia–Fa 3 hours**

See course description for GEO-3210 History and Politics of Asia. (odd years)

**INTL-3220 History and Politics of the Middle East–Sp 3 hours**

See course description for GEO-3220 History and Politics of the Middle East.

**INTL-3230 History and Politics of Western Europe–Sp 3 hours**

See course description for GEO-3230 History and Politics of Western Europe. (odd years)

**INTL-3400 History of American Foreign Policy–Fa 3 hours**

American statesmen have defended the principles of their government and the rights of American citizens in a world of empires and nation-states. This course provides an overview of controversies over independence and imperialism, modern tyranny and regime change, which have marked U.S. foreign policy from the founding to the present day. Crosslisted as HIST or POLS. *Prerequisite: GSS-1100 Politics in American Culture.* (even years)

**INTL-3650 International Relations–Fa 3 hours**

A survey of contemporary international affairs and principles of interstate relations, focusing on forces that unite and divide our world. Crosslisted as INTL or POLS.

**INTL-3790 Comparative Politics–Fa 3 hours**

This course will familiarize students with major historical developments, political debates, and scholarly research in the subfield of comparative politics. Particular emphasis will be placed on topics of the modern state, nationalism, economic development, political culture and ideology, identity structure, regime types, regime transitions, and comparative political economy. Crosslisted as POLS or INTL. (odd years)

**INTL-4050****3 hours****Diplomacy of the Major Powers–Sp**

See course description for HIST-4050 Diplomacy of the Major Powers. Crosslisted as HIST, INTL, or POLS

**INTL-4160 International and Domestic Terrorism–Sp 3 hours**

In-depth study of terrorism, focusing worldwide and domestically. An intensive examination of ongoing international conflicts, narco-terrorism, eco-terrorism, cyber-terrorism, weapons of mass destruction, geographical trouble spots, enemies of the United States, terrorism-counter-terrorism theory and options, terrorism history, law, civil liberties, and Homeland Security. Crosslisted as CRJU and INTL.

**INTL-4300 Great Books in History and Politics–Sp 3 hours**

This course will require the student to read a single classic work of history and political thought (or a limited number of related works) and with other students, to closely and critically analyze the argument of the work. Crosslisted as POLS, INTL, PUAD or HIST. *Prerequisite: GSS-1100 Politics and American Culture* (odd years)

**INTL-4440 Special Topics-International Studies 1–3 hours**

Investigation of specific topics in Social Science and History that have intrinsic worth and engage student interest.

**INTL-4800 Seminar in International Studies–Fa 3 hours**

A seminar/readings course intended to prepare senior students for graduate study. Through readings and discussion, students explore classical writings on international relations and international issues that are shaping our contemporary and future world. Crosslisted as INTL or POLS.

**INTL-4850 Research in International Studies–Sp 3 hours**

Students will prepare and present a formal research project on a country, region, or significant international issue.

**INTL-4980****1–3 hours****Independent Study in International Studies**

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. *Prerequisite: permission of the instructor.*

**Political Science (POLS)****POLS-2000 Introduction to Political Science–Fa 3 hours**

This course offers students a window into the discipline of political science. Students will be exposed to basic methods of the discipline, the fundamental issues of biblical integration and political science, as well as the dominant sub-fields: American politics, comparative politics, international relations, and political philosophy.

**POLS-2250 Popular Culture and Politics–Sp 3 hours**

This course will consider the relationship and effects which various forms of popular culture have had with/upon social and political movements as well as public policy initiatives both in America and International politics. The class will listen to, consider, and analyze a variety of cultural-artistic genres and the sociopolitical movements these engendered and supported in the 19th, 20th, and 21st centuries. Attention will be given to any or all of the following: music, film, art, and literature as well as to the historical, political, and social context. Crosslisted as POLS and SOC. (odd years)

**POLS-2620 American State and Local Government–Sp 3 hours**

The organization and function of states and their political subdivisions form the basis of study in this course.

- POLS-3040 History and Politics of the British Isles and Canada–Sp** **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 EU, and the ongoing structural changes to government. Crosslisted as GEO, HIST, and INTL. (even years)
- POLS-3080 History of Russia and Eastern Europe–Fa** **3 hours**  
See course description for GEO-3080 History of Russia and Eastern Europe.
- POLS-3100 Public Budgeting–Fa** **3 hours**  
See course description for PUAD-3100 Public Budgeting. (odd years)
- POLS-3190 Global Issues–Sp** **3 hours**  
See course description for INTL-3190 Global Issues.
- POLS-3200 History and Politics of Latin America–Fa** **3 hours**  
See course description for GEO-3200 History and Politics of Latin America. (even years)
- POLS-3210 History and Politics of Asia–Fa** **3 hours**  
See course description for GEO-3210 History and Politics of Asia. (odd years)
- POLS-3220 History and Politics of the Middle East–Sp** **3 hours**  
See course description for GEO-3220 History and Politics of the Middle East.
- POLS-3230 History and Politics of Western Europe–Sp** **3 hours**  
See course description for GEO-3230 History and Politics of Western Europe. (odd years)
- POLS-3360 American Judicial System–Fa** **3 hours**  
Federal and state court systems, duties and responsibilities of the prosecutor, defense counsel, jury, and judge including related topics ranging from plea bargaining to sentencing. Crosslisted as CRJU or POLS. *Prerequisite: CRJU-1310 Introduction to Criminal Justice.*
- POLS-3400 History of American Foreign Policy–Fa** **3 hours**  
American statesmen have defended the principles of their government and the rights of American citizens in a world of empires and nation-states. This course provides an overview of controversies over independence and imperialism, modern tyranny and regime change, which have marked U.S. foreign policy from the founding to the present day. Crosslisted as HIST or INTL. *Prerequisite: GSS-1100 Politics in American Culture.* (even years)
- POLS-3600 Public Administration–Fa** **3 hours**  
See course description for PUAD-3600 Public Administration.
- POLS-3610 Presidency–Sp** **3 hours**  
This course analyzes the organization, behavior, and impact of the American presidency on American politics, policy, and culture. Attention is given to historical developments in the American presidency, the roles that presidents play in the American political system and the interaction of presidents with the public, interest groups, political parties, and the media. *Prerequisites: GSS-1100 Politics in American Culture.*
- POLS-3630 Congress–Fa** **3 hours**  
This course is a study of the legislative power in the American government. It focuses on the nature of the legislative power, and how that power was institutionalized in the Constitution. Emphasis is also placed upon the way our conceptions of Congress and the legislative power, have changed from the early national period to the present. The course also introduces the student to contemporary functions and procedures of Congress. *Prerequisites: GSS-1100 Politics in American Culture*
- POLS-3640 Campaigns and Elections–Fa** **3 hours**  
This course examines the fluid nature of political campaigns and elections in modern American politics. Students will study the strategies of political campaigns, including use of the media, fund raising, and resource allocation, as well as individual-level voting behavior as it is practiced in the context of campaigns. *Prerequisite: GSS-1100 Politics and American Culture.* (even years)
- POLS-3650 International Relations–Fa** **3 hours**  
A survey of contemporary international affairs and principles of interstate relations, focusing on forces that unite and divide our world. Crosslisted as INTL or POLS.
- POLS-3690 Public Policy–Sp** **3 hours**  
See course description for PUAD-3690 Public Policy. *Prerequisite: GSS-1100 Politics and American Culture*
- POLS-3710 History of Political Thought I: Ancient Through Medieval–Fa** **3 hours**  
See course description for HIST-3710 History of Political Thought I: Ancient Through Medieval.
- POLS-3720 History of Political Thought II: Modern and Contemporary–Sp** **3 hours**  
See course description for HIST-3720 History of Political Thought II: Modern and Contemporary.
- POLS-3730 American Political Thought–Fa** **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. *Prerequisites: GSS-1100 Politics and American Culture.* (even years)
- POLS-3760 Jurisprudence–Fa** **3 hours**  
A survey of historical and contemporary theories of law, including natural law, Yoderian theories, Theonomy, positivism, critical legal studies, historical jurisprudence, and others, as well as crucial legal concepts such as justice, due process, and current issues. *Prerequisite: GSS-1100 Politics and American Culture.* (even years)
- POLS-3790 Comparative Politics–Fa** **3 hours**  
This course will familiarize students with major historical developments, political debates, and scholarly research in the subfield of comparative politics. Particular emphasis will be placed on topics of the modern state, nationalism, economic development, political culture and ideology, identity structure, regime types, regime transitions, and comparative political economy. Crosslisted as POLS or INTL. (odd years)
- POLS-4050 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.
- POLS-4300 Great Books in History and Politics–Sp** **3 hours**  
This course will require the student to read a single classic work of history and political thought (or a limited number of related works) and with other students, to closely and critically analyze the argument of the work. Crosslisted as POLS, INTL, PUAD, or HIST. *Prerequisite: GSS-1100 Politics and American Culture* (odd years)
- POLS-4440 Special Topics-Political Science** **1–3 hours**  
Investigation of specific topics in Social Science and History that have intrinsic worth and engage student interest.
- POLS-4620 Church and State in America–Fa** **3 hours**  
This course examines the historical, political, theoretical, and legal relationship between church and state in America. Particular attention will be paid to the American founding and changing perceptions of church and state over time. (odd years)

**POLS-4630 3 hours****American Constitutional Law — Civil Liberties and Rights—Sp**

The United States Constitution defines the powers and scope of the American government and delineates the rights and liberties retained by the American people. This course focuses on the supreme Court's interpretation of those rights and liberties by examining the Court's decisions in their legal and historical contexts. Crosslisted as CRJU. *Prerequisites: GSS-1100 Politics and American Culture*

**POLS-4640 3 hours****American Constitutional Law — Government Powers and Federalism—Fa**

This course provides an in-depth analysis of landmark Supreme Court decisions pertaining to the power struggles between the three branches of government at the national level and the power struggles between the national government and state governments. In addition, this course will analyze how Supreme Court Justices interpret the Constitution and construct their opinions. *Prerequisite: GSS-1100 Politics in American Culture* (even years)

**POLS-4700 Prelaw Seminar—Sp 3 hours**

Individual projects acquaint the student with legal procedures and research in areas such as briefs and contracts.

**POLS-4800 Seminar in International Studies—Fa 3 hours**

A seminar/readings course intended to prepare senior students for graduate study. Through readings and discussion, students explore classical writings on international relations and international issues that are shaping our contemporary and future world. Crosslisted as INTL or POLS.

**POLS-4900 Research in Political Science—Sp 3 hours**

Senior capstone thesis course in which students engage in original research and writing for the completion and defense of thesis before a committee of professors. Course emphasizes substantive cross-disciplinary and biblical integration within research topic. *Prerequisite: all political science major requirements or permission of instructor.* (Fee: \$100)

**POLS-4930 1–3 hours****Independent Study in Political Science**

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. *Prerequisite: permission of the instructor.*

**Public Administration (PUAD)****PUAD-3100 Public Budgeting—Fa 3 hours**

Analysis of public sector budgeting at all levels of government in the United States with an emphasis on budgets as reflectors of priority, power, and control. Crosslisted as POLS or PUAD. (odd years)

**PUAD-3390 Public Finance—Fa 3 hours**

A consideration of the financing of local, state, and federal governments. Much attention is given to three functions of government: stabilization, distribution, and allocation. All major taxes that are present in the United States are studied as to structure, revenue gained, and present status. Crosslisted as ECON. *Prerequisite: ECON-2340 Macroeconomics.* (even years)

**PUAD-3600 Public Administration—Fa 3 hours**

Introduction to public administration both as a discipline and profession, including organization theory, budgeting, public policy analysis and evaluation, and public sector administration. Crosslisted as POLS or PUAD.

**PUAD-3690 Public Policy—Sp 3 hours**

Focus on decision making, problem solving, and methods of program analysis. Crosslisted as POLS or PUAD. *Prerequisite: GSS-1100 Politics and American Culture*

**PUAD-4300 Great Books in History and Politics—Sp 3 hours**

This course will require the student to read a single classic work of history and political thought (or a limited number of related works) and with other students, to closely and critically analyze the argument of the work. Crosslisted as POLS, INTL, PUAD or HIST. *Prerequisite: GSS-1100 Politics and American Culture* (odd years)

**PUAD-4440 Special Topics-Public Administration 1–3 hours**

Investigation of specific topics in Social Science and History that have intrinsic worth and engage student interest.

**PUAD-4640 Strategies for Public Administration—Fa 3 hours**

Designed to acquaint the advanced student in public administration or international studies with some of the policy decisions facing American government. All three levels of American government, federal, state, and local, will be examined in light of their particular relationships with foreign governments. (odd years)

**PUAD-4800 Applied Public Administration—Sp 3 hours**

Capstone course for public administration majors, involving the research of issues related to public administration in the United States from a normative and/or empirical perspective. (Fee: \$100)

**PUAD-4970 1–3 hours****Independent Study in Public Administration**

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. *Prerequisite: permission of the instructor.*

**Sociology (SOC)****SOC-1300 Introduction to Sociology—Fa, Sp 3 hours**

Introduction to the concepts of sociology. The structure and processes of social life are studied.

**SOC-2200 Criminology—Fa 3 hours**

Introduction to the major criminological perspectives regarding crime causation. Selected notorious crimes are considered as case studies to enhance understanding of each perspective. Crosslisted as CRJU or SOC.

**SOC-2250 Popular Culture and Politics—Sp 3 hours**

This course will consider the relationship and effects which various forms of popular culture have had with/upon social and political movements as well as public policy initiatives both in America and International politics. The class will listen to, consider, and analyze a variety of cultural-artistic genres and the sociopolitical movements these engendered and supported in the 19th, 20th, and 21st centuries. Attention will be given to any or all of the following: music, film, art, and literature as well as to the historical, political, and social context. Crosslisted as POLS and SOC. (odd years)

**SOC-2310 Juvenile Delinquency—Fa 3 hours**

Study and assessment of casual theory and problems of correction and prevention of delinquency. Crosslisted as CRJU or SOC. (Fee: \$30)

**SOC-2330 Introduction to Social Work—Fa, Sp 3 hours**

See course description for SWK-2330 Introduction to Social Work.

**SOC-2400 Marriage and the Family—Fa, Sp 3 hours**

A biblical theology of marriage and the family is developed as a means by which to evaluate contemporary dating, marriage, and family arrangements. A major focus of the course is upon practical application related to such topics as dating/courtship, engagement, marital adjustment, in-law relations, communication and conflict resolution, family planning, and discipline.

**SOC-2840 3 hours**

**Concepts of Chemical Dependency—Fa, Sp, Su**

See course description for SWK-2840. Crosslisted as CRJU, PSYCH, SOC, or SWK.

**SOC-2900 Ethics in the Helping Professions—Sp 3 hours**

This course is designed to introduce the student to current issues and ethical dilemmas confronting professional helpers. The course encourages development of critical thinking skills by looking at dilemmas from a multifaceted point of view. Codes of ethics for the various helping professions are reviewed and emphasis is placed on understanding these codes. The course strives to provide the student a foundation in basic concepts of ethics and values, an understanding of the complexity of ethical decision making, and a sense of how their own values affect practice. The primary focus of this course is ethics, critical thinking, decision making and self awareness. Crosslisted as SOC or SWK.

**SOC-3330 Social Stratification—Fa 3 hours**

Study of the class structure and its implications for American society. *Prerequisite: SOC-1300 Introduction to Sociology.*

**SOC-3340 Sociology of Religion—Fa 3 hours**

The relationship of religion to society with particular reference to contemporary movements. (even years)

**SOC-3420 Human Sexuality 2 hours**

Study of biblical content regarding human sexuality and an analysis of contemporary concepts within a framework of Christian thought. Crosslisted with PSYCH-3420 Human Sexuality. *Prerequisite: PSYCH-1600 General Psychology or permission of instructor.*

**SOC-3710 Family and Society—Sp 3 hours**

This sociological study of the family examines the scientific knowledge that exists about traditional and contemporary household arrangements. Research on alternative family forms is evaluated in light of public policy decisions and a biblical view of the family.

**SOC-3730 Social Problems—Sp 3 hours**

Study of selected social problems for the purpose of developing, understanding, and exploring approaches to the social treatment of these problems within a theistic framework.

**SOC-3750 Social Movements—Fa, Sp 3 hours**

See course description for HIST-3750 Social Movements.

**SOC-4440 Special Topics-Sociology 1-3 hours**

Investigation of specific topics in Social Science and History that have intrinsic worth and engage student interest.

**SOC-4720 Social Theory—Fa 3 hours**

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

**SOC-4800 Research in Sociology—Sp 3 hours**

Senior research paper in which each student focuses upon an issue or topic within the discipline of sociology. (Fee: \$100)

**SOC-4910 1-3 hours**

**Independent Study in Sociology**

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. *Prerequisite: permission of the instructor.*

**SOC-4990 Sociology Internship—Fa, Sp, Su 3-12 hours**

Sociology majors who participate in government service, human services, research, social service, or other approved activities related to the social sciences may earn up to 12 hours of credit. *Prerequisites: ANTH-1800 Cultural Anthropology, PSYCH-1600 General Psychology, and SOC-1300 Introduction to Sociology*

**Interdisciplinary Studies Course Descriptions**

**College Studies (COLL)**

**COLL-0900 Foundations—Fa, Sp 1 hour**

Foundations is designed to orient students to the Cedarville University learning community, explore academic and life goals, and develop strengths to enhance academic success. The one-credit hour may not be used toward the hours needed for graduation. (Fee: \$150)

**COLL-1010 MAP 0 hour**

MAP (academic probation course) — a unique avenue in which to cultivate scholarship and discipline from a holistic approach for students who are struggling academically. The course is designed to help students in the context of relationship and accountability, to enable students to learn within the dynamics of their lives, to bring concrete strategies to the learning process and to develop skills that will translate into other realms of living. (Fee: \$200)

**Developmental (DEV)**

**DEV-0900 Intermediate Algebra—Fa, Sp 2 hours**

Review of algebraic principles, which are then extended to the solution of polynomial equations, systems of linear equations, rational and radical equations, functional notation, exponential functions, and logarithmic functions with emphasis on computational proficiency. This course is designed to prepare the student for GMTH-1020 College Algebra or other mathematics courses of comparable difficulty. The class time consists of two hours of lecture and two one-hour laboratories each week. May not be applied toward the 128 semester hours needed for graduation nor toward the science and mathematics General Education Requirement.

**Honors (HON)**

**Freshman Humanities Sequence: HON-1010,1020**

**The Making of the Modern Mind 10 hours**

**HON-1010 The Classical and Medieval Ages 5 hours**

Explores those historical, religious, philosophical, and artistic beginnings that have shaped the modern mind or what some are now calling the “postmodern” mind. The story begins, naturally enough, at the beginning, in the mind of God and continues through the development of classical Greek and Roman culture. Concludes with a study of the rise of Christianity and its dominance of Western culture in the Middle Ages.

**HON-1020 5 hours**

**Renaissance, Reformation, and Revolutions**

Explores the changing balance of power in Western culture: from church to state, from faith to reason, from religion to science, and from piety to humanism. Traces out the implications of these shifts for cultural expressions and revolutions in the arts, religion, science, and philosophy and culminates in a study of late twentieth century postmodernism.

**Honors Seminars**

(Seminar offerings vary from year to year.)

**HON-3040 Gender, Politics, and Communication 2 hours**

Study of the places in which American women have found themselves since 1860, the expectations made upon them, and the influences they have had upon American society.

**HON-3050 Communication in the Information Age 2 hours**

Survey of the “new media” in electronic communication with an emphasis on the structures of the new media, their use in such areas as politics, education, business, and health care, the resulting changes in communication patterns in society, and the social and ethical issues raised by their use.

**HON-3060 Leadership 2 hours**

Leadership as a societal role is addressed through analysis of theory and observation of practitioners. A chronology of methodological approaches to the study of leadership is presented. Assigned reading and class processing of ideas and theories prepare the student for observation and evaluation of leaders in a variety of disciplines.

**HON-3080 Creativity: The Birth of a Notion 2 hours**

Stimulates the participant to conscious creativity in every facet of life as an act of Christian stewardship. Creativity will be examined as one of the distinguishing marks of the image of God in man and as the essential ingredient in all artistic expression.

**HON-3100 2 hours**

**Two Philosophies of Teaching and Learning**

Workshop in integrative thinking, exploring comparisons and contrasts between the philosophies of education implicit in Proverbs 1–9 and explicit in the writings of John Dewey.

**HON-3120 2 hours**

**Reading and Writing the Literature of the Natural Environment–Fa, Sp**

A study in both the reading of and the writing of the literature surrounding “environmentalism.” The course will combine a “workshop” approach to writing and an active engagement with both the history of “environmental writing” and current state of many environmental issues.

**HON-3130 2 hours**

**Perspectives on Friendship, Love, and Romance**

Explores friendship, love, and romance from historical, theological, and philosophical perspectives.

**HON-3140 2 hours**

**Body and Soul: Foundations for Human Personhood–Sp**

An interdisciplinary study of human valuing, from the perspectives of theology, philosophy, psychology, biology, and neuroscience. The course will analyze and contrast various secular and Christian theories to arrive at a Christian anthropology, with applications to contemporary issues in bioethics. *Prerequisite: HON-1010 The Classical and Medieval Ages; HON-1020 Renaissance, Reformation, and Revolutions.*

**HON-3180 Aesthetics 2 hours**

Introduction to the study of aesthetics through an exploration of classical writings and the accounts of contemporary theorists, critics, and artists.

**HON-3190 Postmodernism 2 hours**

An interdisciplinary analysis, critique, and response to postmodernism as it is reflected in contemporary culture.

**HON-3200 Romanticism and Its Offspring 2 hours**

Study of the development of poetry and music from 1800 to the present postmodern pop culture.

**HON-3210 Contemporary Global Issues–Sp 2 hours**

Designed to provoke critical thinking about a broad range of complicated, cross-disciplinary issues that confront the world today. Students will be introduced to issues that are truly global–planetary problems, global economy, environmental issues, human rights, and basic human needs.

**HON-3220 2 hours**

**The Rhetoric of Faith in the Christian Tradition**

Study of primary documents written in the genres of Christian confession, prayer, and creedal statement. These documents will be treated in two ways. First, they will be studied as historical representations of believers’ use of language to express messages of the development of a renewed mind and spirit in the Christian faith. Second, they will be used as models for encouraging contemporary believers to employ the power of the written word in the development of a Biblical practice of meditating on, praying for, and affirming those things that are holy, righteous, and pure. *Prerequisite: HON-1010 The Classical and Medieval Ages; HON-1020 Renaissance, Reformation, and Revolutions.*

**HON-3230 Chance, Emergence, or Design–Sp 2 hours**

The origin of complexity and order in the universe is studied from three different perspectives: Neo-Darwinism (chance and necessity), Emergence, and Creation. Starting at the origin of the physical universe and ending with the origin of self-awareness, these perspectives are compared by their scientific value and their philosophical and religious implications. (odd years)

**HON-3240 2 hours**

**Science and Religion: Middle Ages to Darwin–Sp**

A seminar centering on major primary sources in the history of science, exploring the historical relationship of science and religion, particularly Christian theology, from the late Middle Ages to the Darwinian Revolution. *Prerequisite: HON-1010 The Classical and Medieval Ages; HON-1020 Renaissance, Reformation, and Revolutions.*

**HON-4155 Image and Word in a Visual Culture–Sp 3 hours**

Inquiry into the tension between image and word in Jewish and Christian thought and the implications for Christians living in a visual culture. Traces this tension through the art of Judaism and the Medieval church, the iconoclastic controversies of early Byzantium and the English Civil Wars, and recent and contemporary religious thinkers. *Crosslisted as BRDM-4155.*

**HON-4910 Honors Senior Colloquium I 1 hour**

Development of a generic understanding of the integration of faith, learning, and life.

**HON-4920 Honors Senior Colloquium II 1 hour**

Development of a disciplinary understanding of the integration of faith, learning, and life.

**HON-4950 Honors Senior Project 1–2 hours**

The writing of an interdisciplinary research project.

**Liberal Arts (LART)**

**LART-1000 Introduction to Liberal Arts–Fa 1 hour**

An introduction to the liberal arts and the Liberal Arts program.

**LART-4950 3 hours**

**Capstone Project in the Liberal Arts–Fa, Sp**

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: Acceptance in the B.A. of Liberal Arts degree program and senior status.*

**Department of Kinesiology and Allied Health Course Descriptions**

**Allied Health (ALHL)**

**ALHL-1000 1 hour**

**Introduction to the Allied Health Professions–Fa**

Introductory course for students planning career involvement in health and health-related professions. The students will be introduced to health careers by providing descriptions of jobs, the educational and legal requirements, the work environment, and additional information about specific fields.

**ALHL-2000 Medical Terminology–Fa, Sp 1 hours**

An online self-paced program designed to familiarize students with vocabulary indigenous to the medical profession; including terms of anatomic/physiologic features, medical diagnosis, procedures and therapies. Credit/no credit. (Fee: \$110)

**ALHL-3940 Professional Development–Fa 1 hour**

This course is designed to help students acquire an in-depth understanding of the requirements and practice in their chosen allied health profession and to facilitate students’ selection of the field to which they wish to apply. Students will also prepare to complete the centralized application process.

**ALHL-4950 Allied Health Seminar I–Fa 1 hour**

Students will research a topic of interest from their chosen allied health field in preparation for giving a scholarly presentation of their findings in ALHL-4960 Health Science Seminar II. Students will be encouraged to collaborate with a practicing clinician for advice and counsel. *Prerequisite: ALHL-2000 Medical Terminology; EXSC-4600 Research in Exercise Science*

**ALHL-4960 Allied Health Seminar II–Sp 1 hour**

Students will prepare a scholarly presentation based on research done in ALHL-4950 Allied Health Seminar I with specific attention given to integrating concepts across disciplines from a Christian worldview. Students will be encouraged to collaborate with a practicing clinician for advice and counsel. Presentations will be given to a panel of allied health professionals. (Fee: \$25)

**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 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-1550 Basic Athletic Training–Sp 3 hours**

An overview of the allied health profession known as athletic training. This course focuses on prevention, management, and rehabilitation of sport-related injuries. Relevant topics include physical conditioning, evaluation, injury cycle, and superficial modalities. (Fee: \$50)

**ATRN-2560 Lower Body Injury Management–Fa 3 hours**

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

**ATRN-2570 Upper Body Injury Management–Sp 3 hours**

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

**ATRN-2650 Therapeutic Exercise–Sp 3 hours**

Management of injuries from the subacute phase through return to participation. Based on principles of biomechanics with emphasis on strength, flexibility, proprioception, endurance, and agility. *Prerequisites: ATRN-1550 Basic Athletic Training or permission of instructor.*

**ATRN-2901 Clinical I–Fa 2 hours**

This course focuses on the application of learned principles and athletic training clinical skills. This course includes implementation and practice of specific clinical skills from the previous year to facilitate comprehensive learning. Athletic training students will be supervised and given the opportunity to practice learned skills in the clinical setting. Only for athletic training students wishing to matriculate in the athletic training education program. *Prerequisite: ATRN-1500 Introduction to Athletic Training; ATRN-1550 Basic Athletic Training.* (Fee: \$50)

**ATRN-2902 Clinical II–Sp 2 hours**

This course focuses on the application of learned principles and athletic training clinical skills. This course includes implementation and practice of specific clinical skills from the previous year to facilitate comprehensive learning. Athletic training students will be supervised and given the opportunity to practice learned skills in the clinical setting. Only for athletic training students wishing to matriculate in the athletic training education program. *Prerequisite: ATRN-1500 Introduction to Athletic Training; ATRN-1550 Basic Athletic Training.* (Fee: \$50)

**ATRN-3550 3 hours****Organization and Administration in Athletic Training–Fa**

Management of the athletic training program and facility at all levels of sport. Topics include budgets, policies, design, record-keeping, and legal aspects of athletic training.

**ATRN-3660 Therapeutic Modalities–Fa 3 hours**

An overview of the modalities used in athletic training including thermal agents, electrical agents, and mechanical modalities. *Prerequisite: ATRN-1550 Basic Athletic Training or permission of the instructor.* (Fee: \$35)

**ATRN-3903 Clinical III–Fa 2 hours**

A practicum course that allows the student to demonstrate mastery of clinical proficiency by applying course content to the actual practice of athletic training. Students will be assigned to a clinical rotation site where they will be supervised by an Approved Clinical Instructor (ACI) or Clinical Instructor (CI) and assist the Allied Health Care Professional with providing services. Students are responsible for their own transportation. *Prerequisites: ATRN-2560 Lower Body Injury Management; ATRN-2570 Upper Body Injury Management.* (Fee: \$50)

**ATRN-3904 Clinical IV–Sp 2 hours**

A practicum course that allows the student to demonstrate mastery of clinical proficiency by applying course content to the actual practice of athletic training. Students will be assigned to a clinical rotation site where they will be supervised by an Approved Clinical Instructor (ACI) or Clinical Instructor (CI) and assist the Allied Health Care Professional with providing services. Students are responsible for their own transportation. *Prerequisites: ATRN-3903 Clinical III.* (Fee: \$175)

**ATRN-4560 General Medical Issues–Fa 3 hours**

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

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

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

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

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

**ATRN-4905 Clinical V–Fa 2 hours**

A practicum course that allows the student to demonstrate mastery of clinical proficiency by applying course content to the actual practice of athletic training. Students will be assigned to a clinical rotation site where they will be supervised by an Approved Clinical Instructor (ACI) or Clinical Instructor (CI) and assist the Allied Health Care Professional with providing services. Students are responsible for their own transportation. *Prerequisites: ATRN-3904 Clinical IV.* (Fee: \$50)

**ATRN-4906 Clinical VI–Sp 2 hours**

A practicum course that allows the student to demonstrate mastery of clinical proficiency by applying course content to the actual practice of athletic training. Students will be assigned to a clinical rotation site where they will be supervised by an Approved Clinical Instructor (ACI) or Clinical Instructor (CI) and assist the Allied Health Care Professional with providing services. Students are responsible for their own transportation. Capstone Course. *Prerequisites: ATRN-4905 Clinical V.* (Fee: \$175)

**Coaching (CCHG)****CCHG-3670 Fundamentals of Coaching–Fa 3 hours**

Overview of the philosophy, psychology, organization, and general responsibilities of an athletic coach. Knowledge of motor learning and development and an overview of the organizational fundamentals of coaching for all the major sports. (even years)

**CCHG-3680 Scientific Basis of Coaching–Fa 2 hours**

Practical study of physiological and kinesiological principles of training and their application to various sports. (odd years)

**CCHG-3700 through CCHG-3760 Coaching 2 hours each**

Organization, skills, techniques, and strategies of the following sports:

**CCHG-3700 Coaching Volleyball–Fa (even years) 2 hours****CCHG-3720 Coaching Basketball–Fa (odd years) 2 hours****CCHG-3730 2 hours****Coaching Track and Field and Cross Country–Sp (odd years) 2 hours****CCHG-3740 2 hours****Coaching Softball and Baseball–Fa (even years)****CCHG-3760 Coaching Soccer–Sp (odd years) 2 hours****CCHG-4850 1–3 hours****Independent Study in Coaching–Fa, Sp**

Independent study in the area of coaching by students pursuing the coaching minor. *Departmental approval is required.*

**CCHG-4950 Internship in Coaching–Fa, Sp 3 hours**

Field experience at the University or a nearby high school involving actual coaching experience for a minimum of 100 hours. *Departmental approval is required. Credit/no credit. Prerequisites: CCHG-3670 Fundamentals of Coaching; CCHG-37XX Coaching; junior year status or permission of the instructor.*

**Exercise and Sport Science Education (ESED)****ESED-2900 2 hours****Health and Movement Education for the Young Child–Fa, Sp**

An investigation of current trends, methods of instruction, and curriculum design in health and physical education for early childhood classrooms, including review of appropriate Ohio models. Emphasis is given to the importance of nutrition, safety, and movement education for the young child, including a look at basic nutritional, health, and safety management, especially in relationship to childhood illnesses and communicable diseases. *Prerequisite: EDUC-1000 The Education Profession.*

**Exercise and Sport Science (ESS)****ESS-1350 2 hours****Foundations of Exercise and Sport Science–Sp**

Orientation to the history, philosophy, and scope of modern exercise and sport science from a theistic perspective.

**ESS-1400 First Aid and Safety Education–Fa, Sp 2 hours**

American Red Cross Standard First Aid and C.P.R. certificate may be granted at the end of the course. (Fee: \$35)

**ESS-1550 Athletic Training Essentials–Fa 2 hours**

Principles of prevention, recognition, management, and rehabilitation of athletic injuries are presented for the student anticipating professional employment as a supervisor of individuals engaged in recreation and sport activities. (Fee: \$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–Sp 3 hours**

Surveys the concepts and issues related to the human psyche in the context of sports and from a biblical perspective. *Prerequisite: PSYCH-1600 General Psychology, junior status, or permission of instructor.*

**ESS-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**

Application of the facts and principles of basic physics to body movement, sports performance, and teaching of physical education skills. (Fee: \$25)

**ESS-3940 Structural Kinesiology–Fa, Sp 3 hours**

Application of physical laws and analysis of human movement with special reference to anatomical principles underlying human movement. *Prerequisites: GBIO-2010 Human Anatomy and Physiology I or ESS-3890 Human Anatomy and Physiology for the Physical Educator.* (Fee: \$25)

**ESS-4850 1–3 hours****Independent Study in Exercise and Sport Science–Fa, Sp**

Independent study in the area of exercise and sport science. *Prerequisite: Departmental approval is required.*

**Exercise and Sport Science Elective (ESSE)****ESSE-1350 Foundations of Sport Ministry–Sp 3 hours**

This introductory course will give an overview of sport ministry. It will explore the breadth of such a ministry as it attempts to establish a Biblical base for sports evangelism. It will also attempt to demonstrate the balance of a spirit-filled life and the impact it can have in reaching the world with the message of Christ through sports. (even years)

**ESSE-2100 Wilderness Ministry–Su 3 hours**

Preparation for and participation in a backpacking trip provides the backdrop for addressing the purpose, benefits, and effective use of the wilderness backpacking experience for maximum spiritual impact on both individuals and groups. Credit/no credit. (Fee: \$340)

**ESSE-2300 through ESSE-2320 Sports Officiating 2 hours**

Lectures, reading, class discussions, and field experiences in officiating. Ohio High School Athletic Association certification may be earned in selected sports.

**ESSE-2300 Basketball Officiating 2 hours****ESSE-2310 Volleyball Officiating 2 hours****ESSE-2320 Track and Field Officiating 2 hours****ESSE-2810 Introduction to Camping–Sp 2 hours**

The development and scope of camping including philosophies of centralized and decentralized camping, standards, administration, and basic campcraft skills. Special arrangement only. (Fee: \$40) (even years)

**ESSE-2830 Recreational Leadership–Sp 2 hours**

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

**ESSE-3100 Strength and Conditioning–Sp 3 hours**

This course includes the study of the varied aspects of strength training in a variety of sports. In addition to learning and practicing strength training techniques, students will design a conditioning program for preseason, in-season, off-season, and recovery modules. *Prerequisites: GBIO-1000 Principles of Biology, BIO-1110 Introduction to Biology, or permission of the instructor.*

**ESSE-4850 Independent Study in Sport Ministry 1–3 hours**

Independent study in the area of Sport Ministry by students pursuing the Sport Ministry minor. *Prerequisites: Departmental approval is required.*

**Exercise Science (EXSC)**

**EXSC-2000 Worksite Observation–Fa, Sp, Su 0 hours**

Students are required to arrange a field experience for five consecutive full days (minimum of 30 contact hours) in an exercise science work setting approved by their advisor where they can observe and participate in exercise science worksite activities. *Prerequisites: Departmental approval and a follow-up report are required. Credit/no credit.*

**EXSC-3000 Exercise Science Practicum–Fa, Sp 1 hour**

This practicum is a minimum of 30 contact hours assisting or instructing in group aerobics, muscle strength conditioning instruction and workout supervision, muscle toning instruction and workout supervision, or personal training. *Departmental approval is required. Credit/no credit.*

**EXSC-3010 Campus Exercise Science Practicum–Fa, Sp 1 hour**

This practicum is a minimum of 30 contact hours assisting or instructing on-campus experiences such as group aerobics, strength conditioning, workout supervision and personal training. *Departmental approval is required. Credit/No Credit. Prerequisite: EXSC-2000 Worksite Observation.*

**EXSC-3020 1 hour**

**Community Exercise Science Practicum–Fa, Sp**

This practicum is a minimum of 30 contact hours and is intended to provide a hands-on experience in either a sports enhancement facility, hospital cardiac rehabilitation center, or similar facility. *Departmental approval is required. Credit/No Credit. Prerequisite: EXSC-2000 Worksite Observation.*

**EXSC-3810 3 hours**

**Organization and Administration of Exercise Science–Fa**

This course is designed to provide the knowledge and begin to develop the skills and abilities necessary to organize, administer, manage, promote, and deliver quality health/fitness programs effectively, safely, and efficiently, meeting the needs and desires of both the client and the employer. *Prerequisites: Junior status or permission of the instructor.*

**EXSC-3860 Basic Exercise Testing–Fa 4 hours**

This course includes guidelines and techniques of evaluation for basic fitness testing with emphasis on aerobic capacity, flexibility, strength, and body composition. Basic concepts of EKG interpretation, including electrode placement, arrhythmia, and electrophysiology, are introduced. The content is consistent with the skills necessary to prepare students for the American College of Sports Medicine health fitness instructor certification. *Prerequisite: GBIO-2010 Human Anatomy and Physiology I or ESS-3890 Human Anatomy and Physiology for the Physical Educator; GMTH-1020 College Algebra. (Fee:\$100)*

**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 health fitness instructor certification. *Prerequisite: EXSC-3860 Basic Exercise Testing. (Fee:\$100)*

**EXSC-4600 Research in Exercise Science–Sp 3 hours**

Designed to develop an appreciation for the importance of and need for research in exercise science. Orientation to methods and procedures utilized in exercise science research, emphasizing basic principles of conducting research using the case study, literature review and typical outcomes measurement. *Prerequisite: Junior status or permission of the instructor.*

**EXSC-4700 Senior Research–Fa 3 hours**

Students will work with a faculty mentor to conduct a research project, write a paper, and present the project for peers and faculty. The opportunity to present at conferences and/or publish the paper exists for those interested. *Prerequisite: EXSC-4600 Research in Exercise Science. (Fee: \$35)*

**EXSC-4850 1–3 hours**

**Independent Study in Exercise Science–Fa, Sp**

Independent study in the area of exercise science by students pursuing the exercise science major. *Prerequisite: Departmental approval is required.*

**EXSC-4880 3 hours**

**Exercise Testing and Prescription for Special Populations–Fa**

This course will prepare exercise science students to do exercise testing and prescriptions for individuals who are either acutely or chronically distinct from the “apparently not at risk” adult population. These include individuals who are children, elderly, or pregnant, as well as those who have acute or chronic illness or disease conditions that might affect the testing protocol or details of the exercise prescription. *Prerequisites: ESS-1350 Foundations of Exercise and Sport Science; EXSC-3860 Basic Exercise Testing; EXSC-3870 Basic Exercise Prescription. (Fee: \$100)*

**EXSC-4990 Internship in Exercise Science–Fa, Sp 6–12 hours**

This is an actual work experience in an exercise science setting for a minimum of 300 work hours for 9 credit hours and up to 400 work hours for 12 credit hours with a minimum of 30 work hours per week. Capstone course for exercise science major. *Prerequisite: Senior status and departmental approval is required.*

**Multi-Age Health Education (MAHE)**

**MAHE-3030 Nutrition–Fa 3 hours**

A study of the science of nutrition, together with the study of eating habit formation and modification for optimal wellness, presented from a Christian perspective.

**MAHE-3070 Current Issues in Health–Sp 1 hour**

Designed to explore, from a Christian perspective, health-related issues that challenge our society. This course recognizes the reality that there are “no easy answers” as ethics, technology, and economics merge to generate new dilemmas of increasing complexity every day.

**MAHE-3100 Drug Education–Sp 3 hours**

Students will investigate the physical, social, emotional, intellectual, and spiritual factors influencing consumer health behavior with specific application to use/misuse of dietary supplements and herbal preparations, prescription drugs, over-the-counter drugs, alcohol, stimulants, opiates, hallucinogens, and steroids.

**MAHE-3130 School Health Program–Sp 3 hours**

Analysis of the scope of the school health program, including health services, healthful school living, and health instruction.



**MAHE-4610 Teaching Health—Fa 5 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. *Departmental approval is required.*

**MAHE-4960 4 hours****Field Experience in Health Education—Fa, Sp**

An eight-week field experience, including the teaching of health.

*Prerequisite: admission to the Teacher Education Program. Credit/no credit. (Fee: \$100)*

**MAHE-4990 Internship in Health Promotion—Fa, Sp 3 hours**

This is an actual work experience in a health promotion setting for a minimum of 10 hours per week for a minimum of ten weeks.

*Departmental approval is required. Credit/no credit.*

**Multi-Age Physical Education (MAPE)****MAPE-1210 Team Sports—Fa 2 hours**

Theory and practice in soccer, basketball, softball, baseball, volleyball, and novelty sports with attention given to various teaching methods, skills, and rules.

**MAPE-2200 Individual and Dual Sports I—Fa 2 hours**

Theory and practice in tennis, golf, archery, and bowling with attention to various teaching methods, skills, psychomotor skill development, and knowledge in rules, terminology, strategies, safety, and etiquette. (Fee: \$25)

**MAPE-2210 Individual and Dual Sports II—Sp 2 hours**

Theory and practice in badminton, racquetball, table tennis, and track and field with attention to various teaching methods, skills, psychomotor skill development, and knowledge in rules, terminology, strategies, safety, and etiquette. (Fee: \$25)

**MAPE-3600 5 hours****Physical Education in the Elementary School—Sp**

An overview of the place of physical education in the elementary school curriculum with an emphasis on the study of current program content design, teaching techniques, assessment concepts and procedures, as well as modifying activities for the purpose of inclusion for the physically challenged. NASPE standards aligned with assessment and the analysis of student learning are a vital part of this course.

**MAPE-4500 2 hours****Curriculum Development in Physical Education—Fa**

Overview of the curriculum process in physical education, specifically giving attention to the theoretical base, process of curriculum design, and curriculum development for elementary through high school educational programs.

**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.*

**MAPE-4950 3 hours****Methods of Teaching Secondary Physical Education—Fa**

This course provides the study of methods of instruction and practice and the study of planning and implementing units of instruction, as well as evaluating the effectiveness of various teaching strategies for teaching physical education at the secondary level. Also included is the study of understanding and developing assessment techniques in physical education and developing strategies for working with handicapped students.

*Prerequisite: admission to the Teacher Education Program.*

**MAPE-4960 Field Experience—Fa 4 hours**

A field experience taken in conjunction with MAPE-4950 Methods of Teaching Physical Education. *Prerequisite: admission to the Teacher Education Program. Credit/no credit. (Fee: \$100)*

**MAPE-4970 2 hours****Field Experience in Physical Education—Special Populations—Fa, Sp**

An adapted physical education teaching field experience taken in conjunction with EDSE-4900 Student Teaching and Seminar: Adolescent/Young Adult that seeks to provide the opportunity for application of adapted physical education content and theory studied in MAPE-3600 Physical Education in the Elementary School and MAPE-4950 Methods of Teaching Physical Education.

*Prerequisites: admission to the Teacher Education Program; MAPE-4950 Methods of Teaching Physical Education; MAPE-4960 Field Experience. (Fee: \$35)*

**Physical Education Activity Courses (PEAX)****PEA-1240 through PEA\_-2100 Courses 1–2 hours each**

Each course is designed to develop knowledge and skills in the respective activity area. Course requirements include examinations covering the activity subject, skills tests, class participation, and aerobics requirements. Grading options include letter grades or credit/no credit. These courses may be used by non-majors to satisfy the physical education component of the general education requirements. If taken for letter grades, majors may use these courses to satisfy specific curricular requirements.

**PEAE-1240 Self Defense: Women (Fee: \$15)—Fa, Sp 1 hour****PEAE-1300 Contemporary Aerobics: Women—Fa, Sp 1 hour****PEAE-1400 Weight Training: Coed—Fa, Sp 1 hour****PEAE-1450 Intermediate Weight Training—Fa, Sp 1 hour**

*Prerequisite: PEAE-1400 Weight Training: Coed*

**PEAI-1430 Badminton: Coed—Sp 1 hour****PEAI-1460 Bowling: Coed (Fee: \$70)—Fa, Sp 1 hour****PEAI-1540 Golf: Coed (Fee: \$15)—Fa 1 hour****PEAI-1550 Intermediate Golf: Coed (Fee: \$25)—Fa 1 hour****PEAI-1600 Racquetball: Coed (Fee: \$15)—Fa, Sp 1 hour****PEAI-1770 Tennis: Coed—Fa, Sp, Su 1 hour****PEAL-1420 Backpacking: Coed (Fee: \$30)—Fa, Sp 1 hour****PEAL-1510 Cycling: Coed—Fa 1 hour****PEAL-1610 Rock Climbing: Coed (Fee: \$25)—Fa, Sp 1 hour****PEAL-1620 1 hour****Intermediate Rock Climbing: Coed (Fee: \$125)—Sp**

*Prerequisite: PEAL-1610 Rock Climbing: Coed*

**PEAR-2100 Rhythmics: Coed—Fa 1 hour****PEAS-1120 Tumbling: Coed—Sp 1 hour****PEAT-1020 Basketball: Coed—Sp 1 hour****PEAT-1050 Soccer: Coed—Fa, Sp 1 hour****PEAT-1820 Volleyball: Coed—Fa, Sp 1 hour****PEAS-1700 Swimming I – Beginners: Coed—Fa 1 hour**

Designed for nonswimmers or swimmers with minimal swimming background; introduces and develops three strokes: front crawl, back crawl, and elementary back. (Fee: \$60)

**PEAS-1720 Swimming II – Intermediate: Coed–Fa 1 hour**

Focuses on refining the front crawl, back crawl, elementary backstroke, side stroke, and breast stroke. Emphasis on increased endurance and conditioning level. *Prerequisites: PEAS-1700 Swimming I; American Red Cross Level IV certificate.* (Fee: \$60)

**PEAS-1730 Swimming III – Advanced: Coed–Sp 1 hour**

Designed for swimmers who have gained experience through lessons or competitive swimming. Course develops stroke proficiency for all strokes including the butterfly. Includes an introduction to training regimen for lifetime fitness. (Fee: \$60)

**PEAS-1740 Lifeguarding Today: Coed–Sp 2 hours**

Provides lifeguards and lifeguard candidates with skills and knowledge necessary to keep the patron of an aquatic facility safe in and around the water. Teaching of lifeguarding skills and knowledge needed to prevent and respond to aquatic emergencies, preparing candidates to recognize emergencies, respond quickly and effectively to emergencies, and prevent drownings and other incidents. *Prerequisite: age 15 or older; swim 500 yards continuously using front crawl, breast stroke, and side stroke; surface dive and submerge to a minimum depth of seven feet, retrieve a 10 pound object and return with it to the surface; tread water for two minutes using legs only.* (Fee: \$120)

**Physical Education Fitness (PEF)**

**PEF-1990 2 hours**

**Physical Activity and the Christian Life–Fa, Sp, Su**

Study of the role of physical activity in the Christian life from a scriptural, physiological, and psycho-sociological perspective. Emphasis is placed upon developing and continuing active, healthy, Christian life practices. Letter-graded course. (Fee: \$5)

**Military Science Course Descriptions**

**Air Force ROTC (AES)**

Air Force ROTC courses are offered through Cedarville University in collaboration with the Air Force ROTC detachment located at Wright State University. While Air Force ROTC courses are included in the Cedarville University course schedule for registration purposes, leadership laboratories and classes for junior and senior years are conducted on the campus of Wright State University. Cedarville University provides transportation for off-site classes.

**AES-1210,1220 1 hour/sem**

**Foundations of the United States Force I (Fa) and II (Sp)**

(AS 100), These courses are survey courses designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the Air Force.

**AES-1211/1221 0 hours**

**General Military Course (GMC) Leadership Laboratory–Fa, Sp**

This lab provides an opportunity for students to apply Air Force procedures, techniques, and knowledge. Students will learn the Air Force organizational structure as well as customs and courtesies. GMC cadets will also develop their followership and teamwork skills in a cadet-led, cadre-supervised lab environment. Taken concurrently with 1000-level AES courses. Credit/no credit.

**AES-2210,2220 1 hour/sem**

**Evolution of USAF Air and Space Power I (Fa) and II (Sp)**

(AS 200) These courses feature topics on Air Force heritage and leaders; introduction to air power through examination of the Air Force Core Functions; and continued application of communication skills. Its purpose is to instill an appreciation of the development and employment of air power and to motivate sophomore students to transition from AFROTC cadet to AFROTC officer candidate.

**AES-2211/2221 0 hours**

**Field Training Preparation Leadership Lab (FTP)–Fa, Sp**

This lab further develops skills and concepts introduced in the GMC Leadership Laboratory. Students are prepared mentally and physically for the demanding requirements of the upcoming Field Training summer program. Training is cadet-led, where the students will display their ability to apply Air Force concepts and procedures. Taken concurrently with 2000-level AES courses. Credit/no credit.

**AES-2500 Extended GMC Leadership Laboratory 0 hours**

This course is for cadets who have met the requirements of GMC but have not yet completed field training.

**AES-3310,3320 3 hours/sem**

**United States Air( Force Leadership Studies I (Fa) and II (Sp)**

(AS 300) These courses teach cadets advanced skills and knowledge in management and leadership. Special emphasis is placed on enhancing leadership skills. Cadets have an opportunity to try out these leadership and management techniques in a supervised environment as juniors and seniors.

**AES-3311 0 hours**

**Intermediate Cadet Leadership Laboratory (ICL)–Fa, Sp**

The (ICL) lab builds the foundation of leadership skills required as an Air Force Officer. Cadets apply leadership/management concepts learned in Field Training and previous aerospace studies classes and labs to assist in training the GMC cadets. Taken concurrently with 3000-level AES courses. Credit/no credit.

**AES-4310,4320 3 hours/sem**

**National Security Affairs/Preparation for Active Duty I (Fa) and II (Sp)**

(AS 400) These courses are designed for college seniors and gives them the foundation to understand their role as military officers in American society. It is an overview of the complex social and political issues facing the military profession and requires a measure of sophistication commensurate with the senior college level.

**AES-4311/4321 0 hours**

**Senior Cadet Leadership (SCL) Laboratory–Fa, Sp**

This lab prepares students for progression into active duty life. As in the ICL lab, students take leadership roles in execution of leadership labs for the cadet wing. Students hone leadership fundamentals learned in previous courses and labs to a level commensurate to entry into the active duty Air Force. Taken concurrently with 4000-level AES courses. Credit/no credit.

**AES-4500 Extended POC Leadership Laboratory 0 hours**

This course is for cadets who have met all requirements for Air Force ROTC but have not yet completed their baccalaureate degree.

Physical Training sessions are twice a week, see instructor for details. Physical training is not an official class and registration is not necessary; however participation is required.

**Army ROTC (MIL)**

Army ROTC courses are offered through Cedarville University in collaboration with the Army ROTC detachment located at Central State University. While Army ROTC courses are included in the Cedarville University course schedule for registration purposes, all classes, labs, and physical training are conducted on the campus of Central State University. Cedarville University provides transportation for off-site classes.

**MIL-1000 Leadership Lab I 0 hours**

Applied Army ROTC training. Taken concurrently with 1000-level MIL courses.

**MIL-1010,1020 Military Science I 2 hours/sem**

Introduction to the history, role, and organization of the Army and ROTC, as well as the U.S. Army Reserve and U.S. Army National Guard, and the available career options. Introduces officership, military customs and traditions, map reading, land navigation, field training, first-aid procedures, and physical fitness training. Familiarize with rank structure, drill and ceremony, military courtesies, weapons, marksmanship, and communications equipment. Discuss styles and fundamentals of leadership and develop leadership skills.

**MIL-2000 Leadership Lab II 0 hours**

Applied Army ROTC training. Taken concurrently with 2000-level MIL courses.

**MIL-2010,2020 Military Science II 2 hours/sem**

Course of study includes emergency first-aid procedures, field survival practices, physical fitness, orienteering, and small-unit leadership training. Explores the various career management fields within the Army. Students will begin to receive leadership assignments and responsibility within the cadet battalion. Introduction to advanced course of study.

**MIL-3000 Leadership Lab III 0 hours**

Applied Army ROTC training. Taken concurrently with 3000-level MIL courses.

**MIL-3010,3020 Military Science III 3 hours/sem**

The junior year of military science is completely dedicated to developing leadership skills and preparing students for the 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.*

**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.*

**Church Music (CHMU)**

**CHMU-2100 Church Music Seminar–Fa, Sp 0 hours**

A once-per-semester seminar designed to expose students to various aspects of church music ministry. The seminar may take the form of a lecture or masterclass. Crosslisted with WSHP-2100 Worship Forum. *Prerequisite: enrollment as a church music major or minor.*

**CHMU-2200 Field Experience–Fa, Sp 1 hour**

Initial field experience in a local church. Students are responsible for finding a place of ministry involvement to begin developing music ministry skills. Supervision will be provided by the church's pastor or minister of music. *Prerequisite: enrollment as a church music major or minor.*

**CHMU-3630 Administering Church Music I–Sp 3 hours**

Training in the organization, administration, planning, and presentation of vocal music in worship. Included in the course is a study of the administrative, organizational, and pedagogical methods for teaching and training children, youth, and adults, along with an extensive examination of music literature and curricula appropriate to different age groups. (even years)

**CHMU-3640 Administering Church Music II–Sp 3 hours**

Training in the organization, administration, planning, and presentation of instrumental music in worship. Included in the course is a study of the development of small wind and brass ensembles, large ensembles, repertoire and the function of ensembles in worship and Christian education. (odd years)

**CHMU-4900 Church Music Internship 9 hours**

Intensive field experience in a local church. Place of service is determined by student interest, recommendation of supervising faculty, availability of local church, and supervising minister of music. Students must apply for internships and receive endorsement from the advisor and the Chair of the Department of Music and Worship one academic semester before period of service desired and prior to registering. Students should see the director of the church music area for complete internship requirements.

**CHMU-4990 Independent Study–Church Music 1–3 hours**

Independent and intensive study in a particular area of church music for individual students who demonstrate special interests and ability.

**Department of Music and Worship  
Course Descriptions**

**Conducting (CDMU)**

**CDMU-2600 Introduction to Conducting–Fa 2 hours**

The basic technique of the conductor's art: score reading, conducting patterns, interpreting, cueing, rehearsal procedures, and stylistic conceptualization. *Prerequisite: THMU-1210 Music Theory I or permission of instructor. (Fee: \$20)*

**CDMU-3610 Choral Conducting–Sp 2 hours**

Concentrated focus upon the choral conductor's stylistic gestures and verbal communication as they impact ensemble intonation, diction, tone, blend, and balance. This course emphasizes diagnostic listening, problem solving, observation of professional conductors, the conducting of larger choral/instrumental works, and student rehearsal of various music department choral ensembles. *Prerequisite: CDMU-2600 Introduction to Conducting or permission of instructor. (Fee: \$20)*

**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. (even years)

**CLMU-3130 Opera and Oratorio literature–Sp** 3 hours

Survey of opera and oratorio literature from Monteverdi's *Orfeo* and Carissimi's *Jephthe* 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)

**Music Education (EDMU)****EDMU-1000 NAFME–Fa, Sp** 0 hours

The National Association for Music Education is to advance music education by encouraging the study and making of music by all. NAFME is the primary professional organization for music educators. The campus chapter provides informative seminars including a focus on Value Added Assessment along with service activities. NAFME offers music educators a connection to the professional world of music education and increased understanding of the role of NAFME in the field of music teaching. All music education majors are required to enroll in this course as part of their professional development and career preparation. A minimum of 8 semesters of satisfactory participation is required. (Fee: \$30)

**EDMU-2730 Wind and Percussion Methods–Sp** 2 hours

Overview of the history, pedagogy, and performance techniques of all band instruments. Required for the vocal major pursuing the B.M.E. degree and instrumental performance majors; open to others by permission of the instructor. (Fee: \$40) (even years)

**EDMU-2870 Brass Methods–Fa** 2 hours

This course presents a framework of learning environments and varied activities through which students gain the knowledge and acquire the skills requisite to playing and teaching the brass instruments (i.e., trumpet, horn, trombone, baritone, tuba). (Fee: \$40) (even years)

**EDMU-2900 Guitar Methods–Sp** 1 hour

Study of the historical background and pedagogical and performance techniques of the guitar. Required of music education majors pursuing the choral track. Open to other students by permission of instructor. (Fee: \$40)

**EDMU-2910 Woodwind Methods–Sp 2 hours**

This course presents a framework of learning environments and varied activities through which students gain the knowledge and acquire the skills requisite to playing and teaching the woodwind instruments (i.e., flute, oboe, clarinet, saxophone, and bassoon). (Fee: \$40) (even years)

**EDMU-2930 String Methods–Fa 2 hours**

This course presents a framework of learning environments and varied activities through which students gain the knowledge and acquire the skills requisite to playing and teaching the string instruments (i.e., violin, viola, cello, string bass). (Fee: \$40) (odd years)

**EDMU-2950 Percussion Methods–Sp 2 hours**

Concentration in snare drum techniques and an introduction to tympani and tuned percussion methods. (Fee: \$40) (odd years)

**EDMU-3710 Music for Early Childhood–Fa 3 hours**

Music literature and teaching aids for children, including basic music theory, development of skills on keyboard, classroom instruments, and voice; music in the curriculum; and teaching music concepts. (Fee: \$30)

**EDMU-3720 Music for Adolescent/Young Adults–Sp 3 hours**

The history of and basis for music in the secondary curriculum, administration of the music program, methods of teaching music in groups, and sources of materials for instruction. (Fee: \$30)

**EDMU-3730 Vocal Pedagogy–Fa 2 hours**

Philosophy, objectives, and techniques of offering vocal instruction at all levels with emphasis on vocal production and pedagogical approaches. *Prerequisite: CLMU-1860 Voice Class or completion of sophomore vocal review.*

**EDMU-3750 Instrumental Pedagogy–Fa 2 hours**

The study of techniques and literature for the teaching of wind, percussion, brass, and string students in the private studio. Investigation of studio teaching through readings, interaction and discussion. *Prerequisite: PLMU 1000 and 2000-levels.* (odd years)

**EDMU-3910 Instrumental Administration–Fa 3 hours**

A course designed to present the philosophy, learning process, and organizational problems associated with beginning, intermediate, and advanced bands. Along with classroom instruction, students will be involved in marching band field experiences and hands-on instruction in the basic repair of band instruments. (Fee: \$50) (even years)

**EDMU-4990 1–3 hours****Independent Study in Music Education**

Independent and intensive study in a particular area of music education for individual music education majors who demonstrate special interests and ability.

**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.

**Music History (HLMU)****HLMU-2100 2 hours****Jazz History: Music of the Multi-Culture–Fa**

Survey of jazz as an American art form, as a representative of both Western and non-Western practices, that now make up our American multi-culture, and as the primary vehicle for the realization of improvisation within that multi-culture. Acquaints the student of music with jazz styles and the major figures in jazz history and assists in the discovery of jazz influence upon all other American music, both classical and popular. *Prerequisites: THMU-1220 Music Theory II; THMU-1320 Aural Skills II.* (even years)

**HLMU-2310 Introduction to Music Literature–Sp 3 hours**

Study of music by genre and chronology. Focuses on art traditions in music. Students become familiar with a wide variety of music literature and learn to listen analytically. Serves as the introductory music history course for sophomore music majors.

**HLMU-3130 Opera and Oratorio Literature–Sp 3 hours**

Survey of opera and oratorio literature from Monteverdi's *Orfeo* and Carissimi's *Jephte* to works of the 21st century. Analysis of scores will be complemented by recordings, live performance, libretti studies, and historical background. (odd years) Crosslisted with CLMU.

**HLMU-3310 Music History I–Fa 3 hours**

Study of the music of Western civilization traced from its primitive sources and giving special attention to Medieval, Renaissance, and Baroque music as demonstrated through the vocal and instrumental music of composers from each period. *Prerequisites: HLMU-2310 Introduction to Music Literature; THMU-2210 Music Theory III; permission of instructor.*

**HLMU-3320 Music History II–Sp 3 hours**

Study of the music of Western civilization traced from 1750 to the present time, giving special attention to classical, romantic, 20th Century, and contemporary music as demonstrated through the vocal and instrumental music of composers from each period. *Prerequisites: HLMU-2310 Introduction to Music Literature; THMU-2210 Music Theory III; permission of instructor.*

**HLMU-3400 Global Music–Fa 3 hours**

A socio-anthropological approach to the study of the world's music. Surveying music of cultures of Africa, the Americas, and Asia as well as European folk music. Music traditions are studied from a perspective that emphasizes music as an integral part of society and culture, helping students discover the influence of culture on music, and the subsequent role of music within the culture. (Fee: \$50) (odd years)

**HLMU-3410 Traditional Irish Music–Fa 2 hours**

This course introduces students to the practice of traditional Irish music through study of primary tune forms, experience of the social context of Irish music-making, and acquaintance with leading performers within the tradition. The class culminates in an Irish music festival held at a local coffee shop. Crosslisted with CLMU-3410 Traditional Irish Music. *Prerequisite: permission of instructor.* (Fee: \$30)

**HLMU-3420 Music of the Church–Fa 3 hours**

An in-depth review of the past, present, and future of music in the church and its use in worship. The course provides tools that students can use to evaluate the quality and usefulness of various musical styles within the context of different worship traditions. (odd years)

**HLMU-4110 Choral Literature–Sp 3 hours**

An historical overview of choral music from 1400 to the present. Attention is given to primary genres of choral composition: motet, madrigal, mass, anthem, oratorio, passion, cantata, and orchestral works with choir. This course will serve as an elective for majors in choral music education, church music, vocal performance, and composition. (even years)

**HLMU-4990 Independent Study in Music History 1–3 hours**

Independent and intensive study in a particular area of music history for individual students who demonstrate special interests and abilities. *Prerequisites: HLMU-3310, 3320 Music History I and II.*

**HLMU-4980 Special Topics — Music History—Fa, Sp 1–3 hours**

Study of selected topics in music. *Prerequisites: HLMU-3310 Music History I and HLMU-3320 Music History II or permission of instructor.*

**Humanities (HUM)**

**HUM-1400 Introduction to the Humanities—Fa, Sp 3 hours**

Historical study of the relationship of music, art, and literature to the dominant cultural, religious, and philosophical trends and their relationship to Christian theism. (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.

**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.

**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.

**PFMU-3220 Worship Ensemble—Fa, Sp 0–1 hours**

Ministry team of 8–10 singers, instrumentalists, and technicians; open to all students by audition. Repertoire is contemporary Christian and praise and worship music. Group will tour on behalf of the University throughout the school year and during breaks. *Prerequisite: admission by audition only.*

**PFMU-3650 Chamber Ensemble—Fa, Sp 0–1 hours**

The performance of representative literature in a variety of instrumental and vocal settings. Groups are normally student-formed and faculty-led and can be either homogenous (all strings, all brass, etc.) or heterogeneous. NOTE: An instructor must be designated for a group before any of its members register for this course. *Prerequisites: permission of instructor; approval of the chair.*

**PFMU-3800 Concert Chorale—Fa, Sp 0–1 hours**

The Concert Chorale is a group of 60 select voices. Repertoire is chosen from a wide spectrum of musical styles, including choral masterpieces, sacred classics, anthems, spirituals, and tasteful contemporary works. Numerous concerts are presented each year on campus as well as in churches, schools, and other venues.

**PFMU-3820 Men's Glee Club—Fa, Sp 0–1 hours**

The Men's Glee Club has a membership of 50 voices, selected by audition. Literature includes traditional sacred and secular music from the Renaissance throughout the 20th century. Several concerts are presented each year on campus as well as in churches, schools, and other venues.

**PFMU-3840 Women's Choir—Fa, Sp 0–1 hours**

The Women's Choir consists of 50 treble voices, selected by audition. Repertoire embraces all historical periods and styles with performances on campus, in schools, in churches, and in civic meetings.

**PFMU-3850 Opera Ensemble—Fa 0–1 hours**

The coaching, staging, and performance of operatic literature in scenes, recitals, or full-scale productions.

**PFMU-3880 Brass Choir—Fa, Sp 0–1 hours**

The Brass Choir of select instrumentation consists of 20 to 25 members. It serves the University and its constituency by performing concerts featuring the highest quality brass choir literature. Major concerts are performed each semester.

**PFMU-3940 University Orchestra—Fa, Sp 0–1 hours**

The Orchestra is composed of string, wind, brass, and percussion players selected by audition. The group performs challenging, high-quality literature in concerts on campus and has opportunities to minister in local churches.

**PFMU-3970 Symphonic Band—Fa, Sp 0–1 hours**

The Symphonic Band is composed of approximately 80 members, selected by audition. Performing quality band literature, the band has appeared before state and national conference audiences and in concert under the baton of such guest conductors as Jim Curnow, George Strombeck, and George Wilson. Several concerts are presented each year on campus, in churches, and in schools.

**PFMU-3980 Jazz Band—Fa, Sp 0–1 hours**

The Jazz Band has a membership of approximately 16 musicians, selected by audition. The group performs Big Band music and contemporary jazz standards. The band is active in both campus and off-campus activities.

**Music Private Study (PLMU)**

Private instruction for credit in piano, voice, guitar, orchestral and band instruments, and composition is available to all music majors. Students with majors outside of the Department of Music and Worship need special approval from the department Chair.

Credit in performance lessons is based on a minimum of six hours of practice and one half-hour lesson per week for one hour of credit. An audition is required for initial registration. Continued registration is based on satisfactory progress as determined each semester by the instructor. (Fees: private lesson fee \$300 and practice room fee \$100 per credit hour)

**PLMU-1000, 2000, 3000, 4000 Organ 1–2 hours****PLMU-1100, 2100, 3100, 4100 Piano 1–2 hours****PLMU-1200, 2200, 3200, 4200 Voice 1–2 hours****PLMU-1300, 2300, 3300, 4300 Trumpet 1–2 hours****PLMU-1310, 2310, 3310, 4310 Trombone/Baritone 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 Double Bass 1–2 hours****PLMU-1550, 2550, 3550, 4550 Harp 1–2 hours****PLMU-1600, 2600, 3600, 4600 Guitar 1–2 hours****PLMU-1700, 2700, 3700, 4700 Percussion 1–2 hours****PLMU-1800 Private Lessons in Composition—Fa, Sp 1 hour****PLMU-1810, 2810, 3810, 4810 1–2 hours****Contemporary Piano—Fa, Sp**

*Prerequisites: music or worship student, or instructor approval.*

**PLMU-1820, 2820, 3820, 4820 1–2 hours****Contemporary Voice—Fa, Sp**

*Prerequisites: music or worship student, or instructor approval.*

**PLMU-1830, 2830, 3830, 4830 1–2 hours****Contemporary Guitar—Fa, Sp**

*Prerequisites: music or worship student, or instructor approval.*

**PLMU-2800, 3800, 4800 Music Composition 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: \$75)

**PLMU-3910 Junior Seminar—Sp 1 hour**

Group preparation for Senior project capstone presentation. *Prerequisite: junior status.*

**PLMU-3920 Junior Composition Project—Fa, Sp 1 hour**

The culminating project for juniors majoring in musical 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: \$75)

**PLMU-4910 Senior Seminar—Fa, Sp 1 hour**

One-on-one preparation for the senior project capstone presentation. *Prerequisite: PLMU-3910 Junior Seminar* (Fee: \$100)

**PLMU-4920 Senior Project—Sp 1 hour**

The capstone project for the B.A. in Music degree. Students may register for this course at the same time as Senior Seminar. (Fee: \$75)

**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-1500 Introduction to Music Technology—Fa 1 hour**

An introductory study of the use of computers and synthesizers in the production of printed musical scores. All students are expected to complete this course during their first year of study since the skills acquired in the course are used throughout their academic curriculum.

**THMU-2140 Functional Keyboard Skills—Fa 1 hour**

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

**THMU-2210 Music Theory III—Fa 3 hours**

Critical study and analysis of the chromatic harmony, counterpoint and formal structure of 18th century music. Creative work in traditional compositional forms.

**THMU-2220 Music Theory IV–Sp 3 hours**

Critical study and analysis of the chromatic harmony and formal structure of 19th-century music. Analytical study of 20th-century compositional techniques, including impressionistic, serial, neoclassical, and electronic practices: creative work in contemporary styles.

**THMU-2250 Contemporary Musicianship II–Fa 2 hours**

This course is designed to help students understand the structure of contemporary music. The class will also continue to develop written and aural musicianship studied in Contemporary Musicianship I. *Prerequisites: THMU-1250 Contemporary Musicianship I.* (Fee: \$30)

**THMU-2260 Contemporary Musicianship III–Sp 2 hours**

This course is designed to help students understand the structure of contemporary music. The class will also continue to develop written and aural musicianship studied in Contemporary Musicianship II. *Prerequisites: THMU 2250 Contemporary Musicianship II.* (Fee: \$30)

**THMU-2310 Aural Skills III–Fa 2 hours**

Intermediate aural musicianship techniques: at-sight singing, melodic pattern recognition, and chord dictation within both diatonic and chromatic major and minor systems by including syncopated and irregular rhythmic patterns as well as four-voice harmonic dictation, including more advanced chromatic language. *Prerequisite: THMU-1320 Aural Skills II. Corequisite: THMU-2210 Music Theory III.*

**THMU-2320 Aural Skills IV–Sp 2 hours**

Advanced aural musicianship techniques: at-sight singing, melodic pattern recognition, and chord dictation within both diatonic and chromatic major and minor systems. More advanced melodic, rhythmic, and harmonic dictation, including all tonal language, as well as some extended chromatic possibilities and introduction to the non-tonal tendencies of the 20th century. *Prerequisite: THMU-2310 Aural Skills III. Corequisite: THMU-2220 Music Theory IV.*

**THMU-3120 Jazz Theory and Improvisation I–Fa 2 hours**

This course will introduce students to basic concepts of jazz theory and improvisation. Material will include harmonic structure and appropriate scales choice for improvisation. Students will learn to improvise over jazz standards. *Prerequisites: THMU-2210 Music Theory III, THMU-2310 Aural Skills III, and permission of instructor*

**THMU-3130 Jazz Theory and Improvisation II–Sp 2 hours**

This course will introduce students to advanced concepts of jazz theory and improvisation. Material will include harmonic structure and appropriate scales choice for improvisation. Students will further develop the ability to improvise over jazz standards. *Prerequisites: THMU-2210 Music Theory III, THMU-2310 Aural Skills III, and permission of instructor*

**THMU-4100 Counterpoint–Sp 3 hours**

A survey of polyphonic music from the 18th to the 21st centuries including analysis and composition of species counterpoint examples, canon, a fugal exposition, and a modern composition project. Additional focus upon contrapuntal techniques utilized in contemporary choral and orchestral music. *Prerequisite: THMU-2220 Music Theory IV or permission of instructor.* (odd years)

**THMU-4110 Form and Analysis–Sp 3 hours**

Theoretical study of the structure of musical forms presented by historical style period and corresponding analytical systems, continuation in Weber's traditional Roman numeral analysis, and introduction to Hindemith and Hanson's extended tonality techniques and 20th century methods, including atonal/serial designs of Schoenberg, Perle, and Forte. *Prerequisites: THMU-2220 Music Theory IV; THMU-2320 Aural Skills IV.* (even years)

**THMU-4130 Orchestration–Fa 2 hours**

Designed to develop skills in scoring music for various instrumental groups. *Prerequisite: THMU-2220 Music Theory IV.* (Fee: \$30) (odd years)

**THMU-4140 Choral Arranging–Fa 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. *Prerequisite: THMU-2220 Music Theory IV or permission of instructor.* (Fee: \$30) (even years)

**THMU-4990 1–3 hours****Independent Study in Theory/Composition**

Independent and intensive study in a particular area of music theory or composition for individual students who demonstrate special interests and ability. Repeatable up to three credits.

**Music Technology (TYMU)****TYMU-1251 Music Technology I–Sp 3 hours**

This course is a survey of music technology tools and techniques including an introduction to the digital audio workstation, digital audio editing, MIDI editing and programming, and virtual instruments. *Prerequisites: THMU-1010 Introduction to Music Theory and Aural Skills or successful completion of the Music Theory Entrance Exam; or permission of the instructor.* (Fee: \$45) (even years)

**TYMU-2250 Music Technology II–Fa 3 hours**

This course focuses on laptop recording and editing, giving students skills necessary to record and mix their own arrangements and compositions. Students will use a guerrilla recording approach to create singles and albums. *Prerequisites: TYMU-1251 Music Technology I; or permission of the instructor.* (Fee: \$45) (even years)

**TYMU-2251 Music Technology III–Sp 3 hours**

This course focuses on a variety of synthesis techniques using Logic Pro's various synthesizers as well as the software synthesizer, Omnisphere. Additionally, this course will introduce students to live performance applications with Mainstage. *Prerequisites: TYMU-2250 Music Technology II; or permission of the instructor.* (Fee: \$45) (even years)

**TYMU-3250 Music Technology IV–Fa 3 hours**

This course focuses on film-scoring techniques using live instruments and electronics. Students will create music for a variety of media including film, websites, and radio. *Prerequisites: TYMU-2251 Music Technology III; or permission of the instructor.* (Fee: \$45) (odd years)

**Worship (WSHP)****WSHP-1010 Introduction to Worship Ministry–Fa 1 hour**

This course is designed to be an introductory course to the field of worship ministry. It will provide the student with an examination of current practices in worship ministry, an overview of the worship degree at Cedarville, the character of a worshipper, the role of a worship leader, and career opportunities.

**WSHP-1020 Introduction to Worship Technology–Sp 2 hours**

This course is designed to be an introductory course to the field of worship technology. It will explore the basic technologies and concepts that are needed in worship ministry today, including audio, graphics, video, copyright, and ministry team building. (Fee: \$50)

**WSHP-2060 Music and the Arts in Worship–Fa 3 hours**

An introduction to and overview of the philosophy and history of church music ministry in the evangelical tradition, including the biblical foundation of worship and music, the philosophical foundations for various worship approaches, the application of biblical principles to past and present traditions, and biblical, cultural, and practical principles for worship and praise ministries.



**WSHP-2100 Worship Forum—Fa, Sp 0 hour**

A once-per-semester seminar designed to expose students to various aspects of worship ministry. The seminar may take the form of a lecture or masterclass. Crosslisted with CHMU-2100 Church Music Seminar. *Prerequisites: worship major or permission of instructor.*

**WSHP-2200 Worship Field Experience—Fa, Sp, Su 1 hour**

Initial field experience in a local church or parachurch organization. Students are responsible for finding a place of ministry involvement to begin developing music ministry skills. Supervision will be provided by an on-site staff member. *Prerequisites: worship major or permission of instructor.*

**WSHP-3100 Worship Practicum—Fa, Sp 0–1 hours**

This course is designed to help students refine their worship leadership abilities. Students will be given in-class and out-of-class worship leading assignments. Current trends and advanced worship leading topics will also be discussed. *Prerequisites: junior-level status; church music or worship major; or permission of instructor.*

**WSHP-4900 Worship Internship—Fa, Sp 3–9 hours**

Intensive field experience in worship leadership. Place of service is determined by student interest, recommendation of supervising faculty, and by sponsoring organization (typically a local church congregation). Students must apply for internships and receive endorsement from the advisor and the chair of the department one academic semester before period of service and prior to registering. Students should check with their advisor for complete internship requirements. Repeatable up to nine total hours. *Prerequisites: senior-level standing as a worship major, approval by the advisor and department Chair.*

**WSHP-4980 Special Topics in Worship 1–3 hours**

This is a workshop for students interested in worship leadership and will be offered on a periodic basis depending on instructor availability and student interest. Contact hours will determine the amount of credit given. *Prerequisite: topic dependent.*

## School of Nursing Course Descriptions

### Nursing (NSG)

**NSG-1000 Member of Nursing Profession—Fa, Sp, Su 2 hours**

An introduction to and application of professional nursing roles within the U.S. and global health care systems. Includes discussion of ways of thinking, professional ethics, Christian values, and factors that motivate and influence Christian nurses. As members of the profession, students are introduced to the use of information management skills, concepts of care, and the culture of the profession from a biblical and Christian framework. (Fee: \$200)

**NSG-1050 Health Promotion and Wellness—Sp 4 hours**

Through course content and clinical experiences, 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.* (Fee: \$150)

**NSG-2000 Roles in Disease Prevention—Fa 4 hours**

Principles of disease prevention are explored as foundational concepts of the professional role, emphasizing safety, communication, infection control, nutrition, stress, coping, anxiety, and grief. The course focuses on the development of systematic approaches to individual health and physical assessment, and documentation of findings using appropriate technology in both laboratory and clinical settings. *Prerequisite: GBIO-2010 Human Anatomy and Physiology or by permission of instructor.* (Fee: \$300)

**NSG-2050 Roles in Disease Management—Sp 4 hours**

An introduction to the concepts of pathophysiology and disease management as they are used to provide nursing care to patients across the lifespan. Focus is on the use of a broad range of psychomotor skills required to intervene on behalf of clients with pathophysiologic imbalances in health. Students begin to develop the professional role of provider of care within the contexts of disease, ethics, diversity, evidence, personal values, and critical reasoning both in the laboratory and clinical settings. *Prerequisite: BIO-2210 Microbiology; CHEM-1000 Principles of Chemistry; GBIO-2015 Anatomy and Physiology II; NSG-2000 Roles in Disease Prevention; or by permission of instructor.* (Fee: \$300)

**NSG-2200 Cross-Cultural Interactions—Fa, Sp 1 hour**

Cross-cultural interactions are planned and purposeful experiences designed to gain information and understanding of missions and/or cross-cultural nursing. *Prerequisite: permission of instructor.*

**NSG-3000 Care of Ill 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: \$225)

**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: \$225)

**NSG-3030 Care of Children—Fa, Sp 6 hours**

Focus is on common physiological imbalances of infants, children, and adolescents and the nursing care required to restore or promote physical, emotional, intellectual, social, and spiritual health. Special emphasis is given to the application of growth and developmental theories in the provision of developmentally appropriate care to the pediatric population. Students gain increasing independence in professional nursing role development as providers and coordinators of care. *Prerequisite: Junior nursing major status.* (Fee: \$225)

**NSG-3050 Behavioral and Mental Health Care—Fa, Sp 6 hours**

Introduces aspects of developing therapeutic relationships involving one-to-one and group interactions to achieve client-focused and professional goals. Focus is on effective communication as a member of the profession and provider of care. Using a Christian worldview, students analyze frameworks for promoting and restoring healthy relationships. Students participate in integration of care with other members of the interdisciplinary health care team in a variety of settings. Emphasis is on imbalances in thinking, emotions, and behaviors that interfere with individual and group processes and require external intervention to promote balance. *Prerequisite: Junior nursing major status.* (Fee: \$225)

**NSG-3110 Pharmacology—Sp 3 hours**

Pharmacokinetics, pharmacodynamics, and pharmacotherapeutics of major drug categories are discussed as they are used to restore health balance. Special emphasis is given to the ways in which pharmacological agents may create new health demands. Nursing actions to prevent or minimize these demands are discussed. *Prerequisites: BIO-2210 Microbiology; CHEM-1000 Principles of Chemistry; GBIO-2015 Human Anatomy and Physiology II; NSG-2000 Roles in Disease Prevention; permission of instructor.*

**NSG-3200** 1–3 hours

**Cross-Cultural Nursing Internship**—Fa, Sp, Su

Students actively participate in health-related activities in a facility established to provide care for persons in cultures different from theirs. The length of time involved in the internship may vary according to the student needs. *Prerequisites: NSG-3000 Care of Ill Adults; permission of instructor.*

**NSG-3800 Nursing Externship**—Su 1–4 hours

The focus is on exploration of nursing roles within precepted clinical experiences. Students apply critical thinking to promote and restore health using the Cedarville University School of Nursing Curricular Model. Emphasis is given to application of biblical truth in health care delivery and in addressing common ethical and legal issues encountered by nurses. *Prerequisites: Completion of all junior-level nursing courses.*

**NSG-3930** 3 hours

**Nursing Research and Evidence-Based Practice**—Fa

The research process is studied as an information management tool applied to the investigation of health balances and imbalances. Basic elements of the research process, including ethical issues, are discussed and applied to published nursing research and student proposals. *Prerequisites: Junior nursing major status; PSYCH-2610 Statistics.* (Fee: \$50)

**NSG-4000 Care of Populations**—Fa 6 hours

Students focus on contemporary health issues of populations and communities using theoretical models of epidemiology, health promotion, primary health care, and public health practice. Students integrate knowledge from the health, social, and nursing sciences to population and community health nursing through targeted assessment, interventions, programs, and advocacy. *Prerequisite: senior nursing major status.* (Fee: \$300)

**NSG-4020 Leadership and Management**—Sp 6 hours

The focus is on the development of leadership and management knowledge and behaviors required for the baccalaureate prepared nurse. Special emphasis is given to the biblical framework for leadership and management. Simulated experiences in leadership labs provide opportunities to apply leadership and management principles and theories as providers, managers, and coordinators of nursing care. *Prerequisite: senior nursing major status.* (Fee: \$200)

**NSG-4030 Complex Care Management**—Fa 6 hours

Focuses on the nursing management of individuals or groups experiencing complex multidimensional health imbalances. Special emphasis is placed on the growth of personal and professional development with respect to biblical character qualities. Students assume professional nursing roles in a variety of critical care settings working under the supervision of faculty. *Prerequisite: senior nursing major status.* (Fee: \$300)

**NSG-4060 Transition into Practice**—Sp 6 hours

Students assume professional nursing roles (member of profession, provider of care, and 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. *Prerequisite: completion of all other clinical nursing courses.* (Fee: \$200)

**NSG-4200 Culture and Health**—Fa 3 hours

Situations in which cross-cultural dilemmas emerge from the interaction of culture and health are analyzed to derive models for resolution. *Prerequisite: junior/senior status or permission of instructor.*

**NSG-4800 Independent Study in Nursing**—Fa, Sp 1–3 hours

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

**NSG-4950 Seminar in Nursing**—Sp 3 hours

Capstone course requiring synthesis of previous curricular programming. Students are challenged to integrate a Christian philosophy of nursing as they adopt the role of professional nurse. Students investigate the interplay among political, legal, economic, social, and ethical factors as it affects health care. Capstone course. *Prerequisite: NSG-4030 Complex Care Management. Corequisite: NSG-4020 Leadership and Management, NSG-4060 Transition into Practice.* (Fee: \$200)

## School of Pharmacy Course Descriptions

### Prepharmacy (PPHR)

**PPHR-1011** 1 hour

**Profession of Pharmacy—Introduction to Public Health**—Fa

This course will introduce students to basic public health concepts as they relate to pharmacy. Emphasis will be on understanding the factors that impact community and behavioral health as well as how to effectively plan health promotion activities within a pharmacy setting. *Prerequisite: admission to the prepharmacy program or permission of instructor.*

**PPHR-1012** 1 hour

**Profession of Pharmacy—History and Issues**—Fa, Sp

The profession of pharmacy has a long history, believed to have started in the 9th century around Baghdad, then spreading to Europe as alchemy. This course will explore the history of pharmacy as it diverged from the practice of medicine and how this impacts the practice of pharmacy today and the future of the profession. Projects will include using historical models and identify trends in pharmacy in order to predict future avenues of the profession as well as ethical and legal dilemmas that may ensue. *Prerequisite: admission to the prepharmacy program or permission of instructor.* (Fee: \$20)

**PPHR-2013** 1 hour

**Profession of Pharmacy—Careers**—Fa, Sp

The profession of pharmacy has experienced tremendous growth over the past twenty years, both in terms of numbers in the profession as well as opportunities. In this course, the student will learn of many career options available to the pharmacist. Practicing pharmacists within different career paths will be giving lectures regarding current opportunities as well as projected growth within their field of practice. *Prerequisites: admission to prepharmacy program; PPHR-1011 Profession of Pharmacy-History and Issues; PPHR-1012 Profession of Pharmacy-History and Issues; or permission of instructor.* (Fee: \$50)

**PPHR-2014** 1 hour

**Profession of Pharmacy—Careers**—Fa, Sp

The profession of pharmacy has experienced tremendous growth over the past twenty years, both in terms of numbers in the profession as well as opportunities. In this course, the student will learn of many career options available to the pharmacist. Practicing pharmacists within different career paths will be giving lectures regarding current opportunities as well as projected growth within their field of practice. *Prerequisites: admission to the prepharmacy program; PPHR-1011 Profession of Pharmacy-History and Issues; PPHR-1012 Profession of Pharmacy-History and Issues; or permission of instructor.* (Fee: \$50)

**PPHR-3300** 3 hours

**Biostatistics in Pharmacy and Medicine**—Sp

This is an introduction to the principles of statistics as it applies to the understanding and interpretation of the biomedical literature. The emphasis of this course is on the application of statistical tests commonly employed in biomedical research and the interpretation of the results. *Prerequisite: GMTH-1030 Precalculus, or equivalent or permission of instructor.*

**PPHR-3200 Pharmacy Calculations–Fa 2 hours**

In this course, skills will be developed to apply pharmaceutical mathematics to safely and accurately calculate dose, rate of infusion, and/or compound prescriptions. Basic elements will include conversion between units, understanding weights and measures, and methods of expressing concentration.

*Prerequisites:* third-year prepharmacy student; PPHR-1011 Profession of Pharmacy–Introduction to Public Health; PPHR-1012 Profession of Pharmacy–History and Issues; PPHR-2013 Profession of Pharmacy–Careers; PPHR-2014 Profession of Pharmacy–Careers.

## Department of Psychology Course Descriptions

### Psychology (PSYCH)

**PYCH-1000 Orientation to Psychology–Fa, Sp 1 hour**

Acquaints the psychology major with various areas and issues in the field of psychology. Included will be its specialties, graduate school information, vocational opportunities, and legal and ethical matters. Should be taken during the freshman year.

**PYCH-1010 Writing in APA–Fa, Sp 1 hour**

Students in the course will learn and practice the standards of writing for the behavioral and social sciences as set forth by the American Psychological Association (APA) and the ethical standards for research and scholarship.

**PYCH-1020 1 hour****Graduate School and Career Preparation–Fa, Sp**

Information and guidance is provided for students to make informed decisions regarding postbaccalaureate career options in the human services. Students explore field options comparing non-graduate school, preprofessional jobs as well as professional career opportunities in psychology, counseling, and marriage and family therapy.

**PYCH-1600 General Psychology–Fa, Sp, Su 3 hours**

Designed to provide a survey of modern scientific psychology. The course content centers on such topics as the foundations of psychology, development over the life span, how we experience the world, learning and thinking, motivation and emotion, personality, and social behavior. (Fee: \$5)

**PYCH-1800 Cross-Cultural Psychology–Fa, Sp 3 hours**

A survey course designed to make students sensitive to the impact of culture on life.

**PYCH-2600 Human Development: Life Span–Fa, Sp 3 hours**

An analysis of the physiological, social, and psychological development of the individual from conception through the total life span.

**PYCH-2610 Statistics–Fa, Sp, Su 3 hours**

Designed to provide an elementary coverage of descriptive and sampling statistics commonly used in the behavioral sciences. Includes problems of measurement, measures of central tendency and dispersion, linear correlation, prediction, and simple tests of significance. (Fee: \$5)

**PYCH-2640 Abnormal Psychology –Fa, Sp 3 hours**

Focus upon etiology, symptomatology, and prognosis of psychological disturbance. *Prerequisite:* PSYCH-1600 General Psychology.

**PYCH-2725 Child Development–Fa, Sp 2 hours**

A study of the physiological, social, and spiritual growth of the child from conceptual through preadolescence. Emphasis on the developmental research on family systems theory, the importance of developmentally appropriate learning objectives including play, and the influence of cultural practice and beliefs on family systems.

**PYCH-2735 Child-Adolescent Development–Fa, Sp 3 hours**

A study of the physiological, social, and spiritual growth of the child from conceptual through adolescence. Emphasis on the developmental research on family systems theory, the importance of developmentally appropriate learning objectives including play, and the influence of cultural practice and beliefs on family systems.

**PYCH-2750 The Parent and the Child 3 hours**

Designed to explore the basic value requisites for effective family living. Basic concepts such as love, communication, and parental modeling will be stressed.

**PYCH-2840 3 hours****Concepts of Chemical Dependency–Fa, Sp, Su**

Available to all students. Designed to investigate the concept of chemical dependency. Course emphasis is on the various drugs of abuse and methods of assessment, intervention, and treatment. Crosslisted as CRJU, PSYCH, SOC, or SWK.

**PYCH-2850 Psychology of Adjustment 3 hours**

The systematic process of applying psychological principles to everyday issues of human life. Biblical perspectives are integrated into problem-solving paradigms for the development of a psychologically healthy personality.

**PYCH-3000 Addictions–Sp 3 hours**

This course examines a variety of addictions, including alcohol, drugs, food, sex, gambling, computer games, Internet (including pornography), and codependency. The course will focus on causes, symptoms, diagnosis, treatment, and impact on society. Students will be challenged to develop a biblical perspective.

**PYCH-3130 Intimate Relationships–Fa 3 hours**

Explores friendship, love, and romance from historical, theoretical, and philosophical perspectives. *Prerequisite:* PSYCH-1600 General Psychology or permission of instructor.

**PYCH-3380 Health Psychology–Sp 3 hours**

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

**PYCH-3420 Human Sexuality–Sp 3 hours**

Study of biblical content regarding human sexuality and an analysis of contemporary concepts within a framework of Christian thought. Crosslisted with SOC-3420 Human Sexuality. *Prerequisite:* PSYCH-1600 General Psychology or permission of instructor.

**PYCH-3520 Counseling and Mentoring Women–Fa, Sp 3 hours**

Study of the distinctives of biblical counseling specifically applied to counseling women, the mandate and skill of mentoring woman to woman, and biblical responses to life struggles that are specific to women. Crosslisted as BTCM.

**PYCH-3610 3 hours****History and Systems of Psychology–Fa, Sp**

Major trends in the development of psychology from its beginning to the present. Emphasis is placed upon contemporary theory. *Prerequisite:* PSYCH-1600 General Psychology or permission of instructor. (Fee: \$10)

**PYCH-3620 Psychology and Christianity–Fa, Sp 3 hours**

Students will examine the historical and contemporary discussions that have surrounded the boundaries and interface of psychology and Christianity.

**PYCH-3630 Testing and Measurement–Fa 3 hours**

Emphasis on measurement theory and its applications, including concepts of validity, reliability, and test construction and selection. *Prerequisite:* PSYCH-2610 Statistics. (Fee: \$20)

- PYCH-3640 Industrial/Organizational Psychology–Sp** **3 hours**  
Psychology applied to the work world. Emphasis is on methodology and activities of industrial/organizational psychologists. *Prerequisite: PSYCH-1600 General Psychology or permission of instructor.*
- PYCH-3650 Learning and Memory–Fa, Sp** **3 hours**  
A survey of theories in the field of learning and memory. Emphasis will be placed on the relationship between brain and behavior. Computer laboratory exercises are used to enhance understanding of the concepts presented. *Prerequisite: PSYCH-1600 General Psychology.*
- PYCH-3660 Professional Counseling–Fa, Sp** **3 hours**  
An introductory course emphasizing the underlying philosophies, current theories, and accepted procedures of counseling. *Prerequisite: PSYCH-1600 General Psychology.*
- PYCH-3670 Group Dynamics–Fa, Sp** **3 hours**  
Group processes in a variety of group settings are the focus as this course explores the interaction of individuals and groups. Each student participates in a growth group as part of the course.
- PYCH-3680 Counseling Couples and Families–Fa** **3 hours**  
Students will explore the dynamics of marriage and family relationships, and the means to help couples and family members reconcile or enhance their relationships. Scriptural, psychological, and Christian-life issues spanning family life cycles are studied.
- PYCH-3690 Social Psychology–Fa, Sp** **3 hours**  
The study of the behavior of individuals as it is influenced by past and/or present interactions with social factors. *Prerequisite: PSYCH-1600 General Psychology, or permission of instructor.*
- PYCH-3700 Adolescent Development** **3 hours**  
Recent research dealing with adolescents will be emphasized. Emphasis is placed on the interaction of cultural, social, and personal family variables. Spiritual variables are integrated into the developmental process. *Prerequisite: PSYCH-1600 General Psychology, or permission of instructor.*
- PYCH-3701 Counseling Adolescents–Sp** **3 hours**  
This course introduces students to counseling interventions for helping adolescents who are struggling with common developmental and adjustment problems. *Prerequisite: PSYCH-1600 General Psychology, or permission of instructor.*
- PYCH-3710 Adult Development and Aging–Fa** **3 hours**  
The study of physical, psychological, social, and spiritual development and experience in the adult years. *Prerequisite: PSYCH-1600 General Psychology, or permission of instructor.*
- PYCH-3720 Psychology of Personality–Fa, Sp** **3 hours**  
Contemporary theories of the development, organization, and dynamics of personality. (Fee: \$5)
- PYCH-3730 Research Methods–Fa, Sp** **3 hours**  
An introduction to methods utilized in behavioral science research; emphasis upon experimental methodology and research design. *Prerequisite: PSYCH-2610 Statistics or permission of instructor. (Fee: \$5)*
- PYCH-3740 Qualitative Research–Fa** **3 hours**  
An investigation of a scientific method of inquiry utilizing qualitative rather than quantitative methodologies. Research methodologies such as participant observation and in-depth interviewing will be emphasized. A significant portion of the course will involve students actively engaging in qualitative research projects and preparing papers for potential presentation and publication. *Prerequisites: PSYCH-1010 Writing in APA or permission of instructor.*
- PYCH-3750 Psychological Testing** **3 hours**  
A survey of instruments frequently utilized in psychology. Assessments include intellectual, personality, and vocational interest inventories. Students have opportunities for self-assessment and are introduced to report writing and ethical principles of psychological testing. *Prerequisite: PSYCH-1600 General Psychology; PSYCH-2610 Statistics or permission of instructor. (Fee: \$20)*
- PYCH-3760 Cognitive Neuroscience–Sp** **3 hours**  
Equip students with a thorough understanding of theories and research in Cognitive Neuroscience. Emphasis will be placed on brain physiology and anatomy contributing to the various cognitive processes. Laboratory exercises will enable the students to concretize the concepts presented in class as well as those presented in the research papers and to apply it to themselves. *Prerequisites: PSYCH-1600 General Psychology or permission of instructor.*
- PYCH-3900 Physiological Psychology–Fa, Sp** **3 hours**  
Explores the physiological, biological, and anatomical mechanisms responsible for behavior. *Prerequisite: PSYCH-1600 General Psychology or permission of instructor.*
- 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. *Prerequisite: PSYCH-1600 General Psychology or permission of instructor.*
- 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 Psychology Comprehensive Review–Fa, Su** **3 hours**  
Reports and discussions of research literature in psychology. Required of all psychology majors during their senior year. *Prerequisite: permission of instructor. (Fee: \$20)*
- PYCH-4650 Special Topics Seminar** **1–3 hours**  
Various topics to be offered as interest demands. Available to students with special interests in psychology. *Prerequisite: permission of instructor. (Fee: \$5)*
- PYCH-4700 Counseling Children–Fa** **3 hours**  
An in-depth analysis of the effects of genetic, family, and environmental factors on the developmental patterns of children. A special emphasis will be placed on behavioral disorders of dysfunctional families.
- PYCH-4950 Psychology Thesis–Fa, Sp** **3 hours**  
Provides opportunities for students to conduct an independent research project on a topic of interest and prepare a publishable paper under the supervision of an individual faculty advisor. (Fee: \$20)
- PYCH-4960 Independent Study in Psychology** **1–3 hours**  
Independent research carried out by the advanced psychology student in an area of interest and usefulness to the student. *Prerequisite: permission of instructor.*
- PYCH-4990 Psychology Internship–Fa, Sp, Su** **1–9 hours**  
Junior and senior psychology majors may, with approval of the department, engage in psychological activity at a human service setting. One member of the Department of Psychology will supervise the student's internship. The department will determine the number of credit hours that will be given for individual work experience. Repeatable to nine hours. Capstone course. *Prerequisite: permission of instructor. (Fee: \$20)*

## Department of Science and Mathematics Course Descriptions

### Biology (BIO)

#### **BIO-1110 Introduction to Biology–Fa 4 hours**

Structure and function of plant and animal cells with emphasis in central concepts. This is the first biology course for majors, open to others with high school biology and chemistry backgrounds. Three lectures and one 2-hour laboratory per week. (Fee: \$100)

#### **BIO-1120 General Zoology–Sp 4 hours**

This course will provide an integrative study of the diversity of organisms that make up the animal kingdom. Morphology, physiology, and ecology of the major phyla will be integrated with principles of population dynamics to study the continuities and discontinuities among the animal taxa. Two fifty-minute lectures and two 2-hour labs per week. *Prerequisite: BIO-1110 Introduction to Biology.* (Fee: \$100)

#### **BIO-2210 Microbiology–Fa 4 hours**

A study of the characteristics, culture, and control of bacteria, viruses, and fungi. A major emphasis is placed on microorganisms and disease, with some coverage of industrial and environmental topics. Laboratory techniques are emphasized. Two lectures and two two-hour laboratories per week. *Prerequisite: CHEM-1000 Principles of Chemistry; CHEM-1010 Principles of Biochemistry or equivalent.* (Fee: \$100)

#### **BIO-2250 Cell Biology–Fa, Sp 4 hours**

Foundational knowledge of cell biology including basic mechanisms of prokaryotic and eukaryotic metabolism, division, and physiology. Three lectures and one two-hour laboratory. *Prerequisite: BIO-1110 Introduction to Biology.* (Fee: \$100)

#### **BIO-2500 General Botany–Fa 4 hours**

A survey of the phyla of the plant kingdom and autotrophic prokaryotes and protists. Laboratory experiences will focus upon field botany, plant communities, and opportunities to investigate plant processes. Special emphasis will be upon the growth and development and the anatomy and physiology of flowering plants. Three lectures and one three-hour laboratory per week. *Prerequisites: BIO-1110 Introduction to Biology.* (Fee: \$100)

#### **BIO-2600 General Ecology–Sp 3 hours**

A study of the interrelationships among plants, animals, and microbes and with their environment. Basic theory of biotic communities and ecosystems will provide insights about energy flow, nutrient cycling, and responses to natural and human disturbances of terrestrial, aquatic, and wetland systems. Two lectures and one three-hour laboratory per week. *Prerequisites: Two semesters of biology.* (Fee: \$100)

#### **BIO-3300 Genetics–Fa 4 hours**

This is an integrative course of the areas of classical and molecular genetics. Focus on the principles of heredity in prokaryotic and eukaryotic organisms, which includes the understanding of transmission genetics on a molecular level. The molecular nature of genes, including gene expression, mutations, and manipulation of DNA will be emphasized. Three lectures and one three-hour laboratory per week. *Prerequisite: BIO-1110 Introduction to Biology; BIO-2250 Cell Biology.* (Fee: \$100)

#### **BIO-3410 Invertebrate Zoology–Fa 3 hours**

This course will provide an overview of the diversity of invertebrates. It will take an integrative approach to learning about invertebrate taxonomy, ecology, morphology, and physiology. Field collections of local fauna will be used to learn the principles of invertebrate classification and to study local biological diversity. *Prerequisite: BIO-1120 General Zoology.* (Fee: \$100) (even years)

#### **BIO-3420 Vertebrate Zoology–Sp 3 hours**

This course is a study of the diversity among the vertebrate classes with an emphasis on continuity and discontinuity of morphological form and physiological function of vertebrate systems. *Prerequisite: BIO-1120 General Zoology.* (Fee: \$100)

#### **BIO-3450 Human Structure and Function I–Fa 4 hours**

Study of the structure and function of the human body with an emphasis on body systems. Includes human tissues, skeletal, muscular, nervous, and endocrine systems. Two lectures and one three-hour laboratory per week. *Prerequisite: BIO-2250 Cell Biology.* (Fee: \$100)

#### **BIO-3460 Human Structure and Function II–Sp 4 hours**

Study of the structure and function of the human body systems, including cardiovascular, respiratory, gastrointestinal, and renal systems. Laboratory focuses on physiological phenomena. Three lectures and one three-hour lab per week. *Prerequisite: BIO-3450 Human Structure and Function I.* (Fee: \$100)

#### **BIO-3510 Plant Physiology–Sp 3 hours**

A study of the physiological aspects of vascular plants with emphasis upon plant-soil water relationships, mineral nutrition, photosynthesis, and plant growth and development. Two lectures and one 3-hour laboratory per week. *Prerequisite: BIO-2500 General Botany.* (Fee: \$100) (odd years)

#### **BIO-3520 Plant Taxonomy–Sp 3 hours**

A study of the naming and classification of common vascular plants with emphasis upon field identification in the context of plant community and taxonomic family, plant collecting and herbarium techniques, and the importance of plants in global stewardship and missions. Two lectures and one three-hour laboratory per week. Includes a travel study opportunity during spring break. *Prerequisite: BIO-2500 General Botany.* (Fee: \$100) (even years)

#### **BIO-3600 Environmental Ethics–Sp 3 hours**

An introductory study of ethical systems that addresses the relationship and responsibility of humankind toward the natural world. Emphasis will be upon the biblical environmental stewardship ethic and its application to contemporary environmental issues. Three lectures per week. *Prerequisites: One semester of biology; junior status; permission of instructor.* (odd years)

#### **BIOA-3600 Topics in Environmental Biology–Sp, Su 4 hours**

Enrollment in this course signifies that the student has chosen to enroll in two or more Au Sable Institute courses in an upcoming term taught by faculty of various evangelical Christian colleges and universities. Course descriptions of the more than 20 Cedarville-approved Au Sable courses are available in the Au Sable Institute Bulletin available from the department Au Sable representative or at the Au Sable website. Enrollment begins when the student contacts the University Au Sable representative. Appropriate course titles will appear on the student's transcript with letter grades when the studies are completed. More information on Au Sable Institute is available under Travel Studies Opportunities or at [ausable.org](http://ausable.org). *Prerequisite: acceptance to attend Au Sable Institute.*

#### **BIO-3610 Environmental Physiology and Ecology–Sp 4 hours**

A study of both physiological ecology and field ecology. The course begins with field and laboratory studies of adaptations to winter at the organismic and cellular levels and includes a travel study experience in the "North Woods." Spring emphasis shifts to field ecology with emphasis on aquatic, forest, and prairie ecosystems. Three lectures and one 3-hour laboratory per week. *Prerequisites: BIO-1120 General Zoology; BIO-2500 General Botany; BIO-2600 General Ecology.* (Fee: \$100)

#### **BIO-3710 Biochemistry–Sp 4 hours**

A study of the chemical and physical properties of macromolecules such as proteins, carbohydrates, lipids, and nucleic acids, and the metabolic pathways, enzyme kinetics, and thermodynamics associated with these molecules. Three lectures and one lab per week. *Prerequisites: BIO-1110 Introduction to Biology; CHEM-3510 Organic Chemistry I.*

- BIO-3800 Biological Research**–Fa, Sp **2 hours**  
 Student participate in an inquiry-based research project under the direction of a faculty mentor. The project stresses methods of science including literature reviews, experimental design, data collection, data analysis, and interpretation and communication of the results. The research project may be geared toward completion of the senior seminar capstone experience. *Prerequisites:* sophomore status; permission of instructor. (Fee: \$150)
- BIO-3810 Biological Research Internship**–Fa **1–2 hours**  
 Student will participate in an 8–10 week summer undergraduate research program of their choosing at an accredited university or medical facility. Prior to participation in the research program, the student must have the program approved by the biology faculty member in charge of the course. In addition, the student will receive a progress report form which will be filled out by the student and signed by the student's research advisor. To receive credit for the course, the student must turn in the progress report along with a copy of their laboratory notebook or research log, submit a 5–10 page research summary, and meet with the faculty member in charge of the course. *Prerequisite:* completion of the first two years of the biology core.
- BIO-4210 Advanced Cell Biology**–Fa **4 hours**  
 In-depth study of the cell includes the following topics: normal cell physiology and division, differentiation, basic signaling pathways, and programmed cell death. Study of cell pathogenesis, aberrant signaling mechanisms, and other elective topics of current agricultural or biomedical interest may be included. Three lectures and one three-hour laboratory per week. *Prerequisites:* BIO-2250 Cell Biology. (Fee \$100)
- BIO-4220 Signal Transduction**–Sp **3 hours**  
 Study of major cellular signaling pathways in normal function and disease. Emphasis upon current discoveries and analysis of current, peer-reviewed literature in the field. Online course. *Prerequisites:* BIO-2250 Cell Biology.
- BIO-4300 Molecular Biology of the Cell**–Fa **4 hours**  
 Study of the molecules that make up the living cell, with emphasis on nucleic acid biology and protein biology. Other topics include origin of life, abiogenesis, and a historical analysis of the discovery of DNA and proteins. *Prerequisites:* BIO-1110 Introduction to Biology; CHEM-3510 Organic Chemistry. (Fee: \$100)
- BIO-4310 Eukaryotic Gene Regulation**–Fa **3 hours**  
 This course covers eukaryotic gene regulation which encompasses the knowledge of both basal and regulated transcriptional machinery, how these proteins are regulated, how they regulate gene expression, and their role in cancer progression. Emphasis is placed on the role of chromatin structure and epigenetics in gene expression. *Prerequisite:* BIO-3300 Genetics.
- BIO-4350 Immunology**–Fa **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 three-hour lab per week. *Prerequisite:* BIO-1110 Introduction to Biology, BIO-2250 Cell Biology, and BIO-3300 Genetics. (Fee: \$100)
- BIO-4410 Developmental Biology**–Fa **4 hours**  
 Systematic study of the mechanism of reproduction, gametogenesis, and organogenesis, with an emphasis on human development. Morphological laboratory study of selected vertebrates will reinforce the lecture material. Three lectures and one lab per week. *Prerequisites:* Junior status as a biology major or premed chemistry major, or BIO-3450 Human Structure and Function, or GBIO-2015 Human Anatomy and Physiology II and permission of instructor, or GBIO-2020 Human Anatomy, Physiology and Pathophysiology, and permission of instructor. (Fee: \$100)
- BIO-4450 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-1110 Introduction to Biology; BIO-2250 Cell Biology; BIO-3450 Human Structure and Function I; BIO-3460 Human Structure and Function II, and permission of instructor. (Fee: \$200)
- BIO-4710 Principles of Bioethics**–Fa **3 hours**  
 Christian principles of bioethics, with an emphasis on personhood and the sanctity of human life. Three lectures per week. *Prerequisites:* completion of core biology curriculum; junior status.
- BIO-4770 Pathophysiology**–Sp **3 hours**  
 Study of the abnormal functions of the human body during disease. Includes case study discussions and research writing. Three lectures per week. *Prerequisite:* BIO-3450 Human Structure and Function I, permission of instructor. *Corequisite:* BIO-3460 Human Structure and Function II.
- BIO-4800 Senior Seminar–Biology**–Fa, Sp **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 **4 hours**  
 An opportunity to participate in an internship experience involving research projects with field biologists, ecologists, environmental health scientists, or environmental educators, depending upon the student's vocational preference. Involves department faculty or faculty in conjunction with local or state agencies or private institutions. Provides practical experience in field biology and ecology techniques related to habitat characterization, monitoring, management, and restoration. *Prerequisites:* BIO-1120 General Zoology; BIO-2500 General Botany, BIO-2600 General Ecology; permission of instructor. (Fee: \$25)

**Chemistry: General Education (CHEM)**

Except where noted, general education courses are designed to meet the general education requirements for graduation. These courses will not count toward graduation requirements for majors found in the Department of Science and Mathematics unless they are specifically listed in the curriculum requirements for a major. A student majoring in science or mathematics may take these courses only as electives. However, any course listed for a science or mathematics major or minor may also count toward fulfilling general education requirements.

**CHEM-1000 Principles of Chemistry–Fa 5 hours**

For non-science majors, an introduction to atomic structure, ionic and covalent bonding, stoichiometry, kinetic theory, solutions and equilibria, nuclear chemistry, nomenclature, structure, and reactions of organic compounds. Four lectures and one two-hour laboratory per week. (Fee: \$100)

**CHEM-1010 Principles of Biochemistry–Sp 5 hours**

For non-science majors, an introduction to organic compounds not covered in CHEM-1000 and a study of the nomenclature and metabolism of proteins, carbohydrates, lipids, and nucleic acids. Four lectures and one two-hour laboratory per week. *Prerequisite:* CHEM-1000 *Principles of Chemistry*. (Fee: \$100)

**CHEM-1050 Chemistry for Engineers–Fa 3.5 hours**

Fundamental concepts of chemistry are developed with applications of chemistry to engineering disciplines. Students learn measurement, number handling, the Periodic Table, descriptive properties of atoms, elements, molecules, and ions, chemical reactions, stoichiometry, chemical bonding, equilibrium, thermodynamics, gas laws, and the nature of solids and liquids. Three lectures per week, and one bi-weekly two-hour laboratory. (Fee: \$75)

**Chemistry: Major (CHEM)****CHEM-1110 General Chemistry I–Fa 4 hours**

Fundamental concepts of physical, inorganic, and analytical chemistry are developed. Students are introduced to the physical chemistry concepts of atomic theory, chemical bonding, molecular structure, intermolecular forces, states of matter, and thermodynamics. Inorganic concepts of reaction types and stoichiometry are included. Lab stresses analytical techniques including quantitation, separation, titration, and statistical analysis of data. Many of the lab reports require use of spreadsheets or other computer software. Three lectures and one three-hour lab per week. *Prerequisite:* satisfactory performance on the chemistry placement exam. (Fee: \$100)

**CHEM-1120 General Chemistry II–Sp 4 hours**

A continuation of General Chemistry I, including the physical chemistry concepts of kinetics and equilibrium. Inorganic topics include acids and bases, oxidation-reduction reactions, nuclear chemistry, and the descriptive chemistry of the main group and transition metal elements. Lab exercises stress quantitative analytical techniques and application of visible light spectroscopy. Lab reports require use of spreadsheets or other computer software and statistical analysis of data. Three lectures and one three-hour lab per week. *Prerequisite:* CHEM-1110 *General Chemistry I*. (Fee: \$100)

**CHEM-2210 Analytical Chemistry I–Fa 3 hours**

A study of the fundamental concepts and skills of analytical chemistry including measurement, statistical treatment of data, equilibrium constant calculations, acid-base equilibria, electrochemistry, and volumetric analysis. The laboratory sessions focus on volumetric methods such as precipitation titrations, acid-base titrations, complexation titrations, and redox titrations in which accurate measurement of volume is essential. Two lectures and one three-hour laboratory per week. *Prerequisite:* CHEM-1120 *General Chemistry II*. (Fee: \$100)

**CHEM-2220 Analytical Chemistry II–Sp 3 hours**

Detailed study of analytical instrumentation, including electro-analytical methods such as potentiometry, coulometry, voltammetry, spectrochemical analysis, and analytical separations, including various types of chromatography. Two lectures and one three-hour laboratory per week. *Prerequisite:* CHEM-2210 *Analytical Chemistry I*. (Fee: \$100)

**CHEM-2800 Introduction to Research in Chemistry–Fa 1 hour**

An introduction to the purpose and methodology of research in chemistry, including keeping a laboratory notebook, retrieving information, using the chemical literature, and writing research reports. One lecture per week. *Prerequisite:* CHEM-1120 *General Chemistry II*. (Fee: \$100)

**CHEM-3210 Environmental Chemistry–Sp 4 hours**

A detailed study of energy resources, atmospheric chemistry, and surface water chemistry, with an emphasis on the application of principles from previous courses to current environmental issues. Three lectures and one three-hour lab per week. *Prerequisite:* CHEM-2220 *Analytical Chemistry II* and CHEM-3510 *Organic Chemistry II*, or permission of the instructor. (Fee: \$100) (odd years)

**CHEM-3410 Inorganic Chemistry–Fa 3 hours**

Detailed study of inorganic compounds, including atomic structure, the structure of solids, molecular structure and bonding, molecular symmetry and its applications, acids and bases, and oxidation and reduction. Lab stresses synthesis and characterization using instrumental methods. Two lectures and one three-hour lab per week. *Prerequisite:* CHEM-2210 *Analytical Chemistry I*. (Fee: \$100)

**CHEM-3510 Organic Chemistry I–Fa 4 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. *Prerequisite:* CHEM-1120 *General Chemistry II*. (Fee: \$100)

**CHEM-3520 Organic Chemistry II–Sp 4 hours**

Continuation of Organic Chemistry I, including the detailed study of conjugated aliphatics, aromatics, aldehydes, ketones, carboxylic acids, anhydrides, esters, acyl halides, amines, phenols, and aryl halides. Lab includes systematic qualitative organic analyses using modern instrumental methods (H-NMR, C-NMR, FTIR, GC/MS). Three fifty-minute lectures and one three-hour lab per week. *Prerequisite:* CHEM-3510 *Organic Chemistry I*. (Fee: \$100)

**CHEM-3710 Biochemistry–Sp 4 Hours**

A study of the chemical and physical properties of macromolecules such as proteins, carbohydrates, lipids, and nucleic acids, and the metabolic pathways, enzyme kinetics, and thermodynamics associated with these molecules. Four lectures per week. *Prerequisites:* BIO-1110 *Introduction to Biology*; CHEM-3510 *Organic Chemistry I*.

**CHEM-3800 Research Methods in Chemistry–Fa, Sp, Su 1 hour**

An introduction to the chemical literature and laboratory skills associated with an upcoming research project. This course may be repeated up to a total of three times. *Prerequisites:* CHEM-2800 *Introduction to Research in Chemistry*; CHEM-2210 *Analytical Chemistry I* or CHEM-3510 *Organic Chemistry I*; permission of instructor. (Fee: \$150)

**CHEM-4210 Advanced Chemistry Lab–Sp 2 hours**

This laboratory course will integrate organic and inorganic synthetic methodology with the application of various characterization techniques. Analytical, physical, and instrumental analysis techniques will be utilized. One three-hour lab per week. *Prerequisite:* CHEM-4320 Quantum Mechanics and Spectroscopy. (Fee: \$100)

**CHEM-4310 Thermodynamics and Kinetics–Fa 4 hours**

A study of the laws of thermodynamics, chemical equilibrium, solutions, and kinetics. Three lectures and one three-hour lab per week. *Prerequisites:* CHEM-2210 Analytical Chemistry I; PHYS-2120 General Physics II. (Fee: \$100)

**CHEM-4320 Quantum Mechanics and Spectroscopy–Sp 4 hours**

A study of the states of matter, surface phenomena, quantum mechanics, bonding, and spectroscopy. Three lectures and one three-hour lab per week. *Prerequisites:* CHEM-2210 Analytical Chemistry I; PHYS-2120 General Physics I. (Fee: \$100)

**CHEM-4410 Advanced Inorganic Chemistry–Sp 3 hours**

Study of d-metal complexes, the systematic chemistry of the elements, and advanced topics in inorganic chemistry. Topics may include main group organometallics, d- and f-block elements, catalysis, and bioinorganic chemistry. Three lectures per week. *Prerequisite:* CHEM-3410 Inorganic Chemistry.

**CHEM-4800 Senior Seminar–Chemistry–Sp 1 hour**

Capstone course for majors in chemistry. Students present a paper from library or laboratory research. Before enrollment, each student must obtain approval of the topic from their advisor and the seminar instructor and set the date of presentation. The students must also attend a minimum of 10 seminars during the senior year. Guest lecturers or faculty members may present papers at the invitation of the instructor. *Prerequisites:* senior status; attendance of a minimum of 10 seminars during the sophomore and junior years.

**CHEM-4830 Research in Chemistry–Fa, Sp 1–3 hours**

Investigation of a chemical research project and its culmination in a scholarly research report. Submission and approval of a research proposal must precede registration. May be repeated once for credit. *Prerequisites:* CHEM-2800 Introduction to Research in Chemistry; CHEM-3800 Research Methods in Chemistry; permission of instructor. (Fee: \$150)

**CHEM-4880 Topics in Chemistry 1–3 hours**

Topics of special interest are selected by the chemistry faculty from the areas of modern chemistry. *Prerequisites:* CHEM-2210 Analytical Chemistry I; junior status; permission of instructor.

**CHEM-4900 Independent Study in Chemistry 1–3 hours**

Supervised independent study of some chemical phenomena. Submission and approval of a research proposal must precede registration. *Prerequisites:* CHEM-2210 Analytical Chemistry I; CHEM-3510 Organic Chemistry I; CHEM-4310 Thermodynamics and Kinetics.

**CHEM-4910 Chemistry Internship–Fa, Sp, Su 1–3 hours**

Students will gain experience in the chemistry profession in a departmentally approved work environment. A technical report detailing the skills and techniques utilized and a supervisor's evaluation will be the basis for successful completion. *Prerequisite:* CHEM-2220 Analytical Chemistry II or CHEM-3520 Organic Chemistry II.

**Environmental Science (ENVS)****ENVS-1010 Introduction to Environmental Science–Sp 1 hour**

An entry level course for environmental science majors to introduce the environmental curriculum, initiate camaraderie among students and faculty, and provide guidance in vocational planning. One lecture per week; occasional field trips. *Prerequisite:* permission of instructor.

**ENVS-2100 Principles of Geographic Information Systems–Fa 3 hours**

An introduction to the use of geographical information systems (GIS). Topics of emphasis are related to the fields in which these systems are used including, biology, environmental chemistry, epidemiology, geography, geology, and economics. Students will analyze geographical data in order to present potential solutions to a variety of situations. Two one-hour lectures and one two-hour lab per week. *Prerequisite:* GMTH-1030 Precalculus or GMTH-2110 Biostatistics, or permission of instructor. (Fee: \$100)

**ENVS-3200 Ecosystem Ecology–Fa 3 hours**

An advanced study into the distribution, structure, and function of ecosystems. Emphasis will be placed on determining patterns and identifying the socio-ecological processes that connect the physical environment, living organisms, and human communities. Two one-hour lectures and one two-hour lab per week and includes a travel study experience to the Indiana Dunes National Lakeshore. *Prerequisites:* BIO-2600 General Ecology or permission of the instructor. (Fee: \$100) (odd years)

**ENVS-3600 Environmental Ethics–Sp 3 hours**

An introductory study of ethical systems that addresses the relationship and responsibility of humankind toward the natural world. Emphasis will be upon the biblical environmental stewardship ethic and its application to contemporary environmental issues. Three lectures per week. *Prerequisites:* One semester of biology; junior status; permission of instructor. (odd years)

**ENVS-4100 Environmental Geology–Fa 4 hours**

Application of geology to environmental problems such as natural resource extraction, water supply, pollution, waste disposal, landslides, floods, and land use planning. Required field trip. Includes three lectures and one three-hour lab per week. *Prerequisites:* GEOL-1110 Introduction to Physical Geology and junior status. (Fee: \$150) (even years)

**Earth Science (ESCI)**

Except where noted, general education courses are designed to meet the general education requirements for graduation. These courses will not count toward graduation requirements for majors found in the Department of Science and Mathematics unless they are specifically listed in the curriculum requirements for a major. A student majoring in science or mathematics may take these courses only as electives. However, any course listed for a science or mathematics major or minor may also count toward fulfilling general education requirements.

**ESCI-2310 Introduction to Oceanography–Sp 4 hours**

An introductory survey of the oceans and the processes that occur in and around them. Major topics will include ocean currents, coastlines, plate tectonics, marine sediments, waves, tides, composition of sea water, interaction of the ocean with the atmosphere, marine life forms, and their habitats. A field trip will visit a local aquarium. Lecture three times per week and one laboratory per week. This course satisfies the physical science requirement of the general education requirements. (Fee: \$100) (odd years)



**ESCI-2410 General Meteorology 4 hours**

A survey of basic meteorological principles and weather systems. Topics covered will include the vertical structure of the atmosphere, cloud development and precipitation, optical effects of the atmosphere, wind systems, air masses, fronts, and severe weather. Labs will be used to develop basic meteorological skills such as observation of local weather, decoding and interpretation of meteorological data, and introductory weather forecasting. The course and lab will be taught at a level which requires the use of algebra and trigonometry. Three weekly lectures and one two-hour laboratory per week. This course satisfies the physical science component of the general education requirements (Fee: \$100) (even years)

**ESCI-2510 Introduction to Astronomy–Fa 4 hours**

An introduction to the structure and composition of the universe. Topics covered will include measurement of celestial objects, structure of the solar system and galaxy, composition and history of the universe. Time will be spent in the discussion of various cosmological models and their implications. The course and lab will be taught at a level which requires the use of algebra and trigonometry. Three weekly lectures and one two-hour laboratory per week. Variations in the laboratory schedule will be made to accommodate field observations. This course satisfies the physical science requirement of the general education requirements. (Fee: \$100) (odd years)

**Forensic Science (FORS)****FORS-3400 Forensic Science–Fa 4 hours**

This course will apply a student's knowledge of chemistry and biology to specific forensic analyses. Topics to be covered will include matching of paint and glass samples, use of GC/Mass Spectrometry and IR spectroscopy to identify controlled substances, analysis of explosives and fuel residues, DNA typing, fingerprint examination, document examination, and giving of expert testimony. *Prerequisites: BIO-2250 Cell Biology; CHEM-2220 Analytical Chemistry II; CRJU-3390 Criminal Evidence. Co-requisites: CHEM-3510 Organic Chemistry I.* (Fee: \$100)

**FORS-4800 Forensic Science Capstone–Sp 1 hour**

Capstone course for the forensic science major. Students will research a specific forensic procedure and give a brief explanation of it. This will be followed by a series of detailed questions from a panel of faculty members, designed to simulate the examination of an expert witness. Students will be graded on their knowledge and professional presentation. *Prerequisites: BIO-3710 Biochemistry; CHEM-3520 Organic Chemistry II; FORS-3400 Forensic Science.*

**General Biology (GBIO)**

Except where noted, general education courses are designed to meet the general education requirements for graduation. These courses will not count toward graduation requirements for majors found in the Department of Science and Mathematics unless they are specifically listed in the curriculum requirements for a major. A student majoring in science or mathematics may take these courses only as electives. However, any course listed for a science or mathematics major or minor may also count toward fulfilling general education requirements.

**GBIO-1000 Principles of Biology–Fa, Sp, Su 3.5 hours**

Emphasizes basic life processes and the principles by which these processes operate at the ecological, organismic, and cellular levels of organization with emphasis on human responsibility toward life at all levels. Three lectures each week and one two-hour, bi-weekly laboratory. (Fee: \$75)

**GBIO-2010 Human Anatomy and Physiology I–Sp 4 hours**

Survey of the anatomy and physiology of the human body with an emphasis on cell and human tissues and on the skeletal, muscular, nervous, and endocrine systems. Three lectures and one laboratory experience per week. *Prerequisite: GBIO-1000 Principles of Biology; or CHEM-1000 Principles of Chemistry.* (Fee: \$100)

**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 \$100)

**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. *Prerequisites: CHEM-1000 Principles of Chemistry.* (Fee: \$100)

**GBIO-2720 Bioethics and the Human Experience–Sp 3 hours**

An integrative survey of bioethics, emphasizing human personhood, human sexuality and reproduction, end-of-life issues, and biomedical decision making. *Prerequisite: GBIO-1000 Principles of Biology.*

**GBIO-3350 Principles of Immunology–Sp 3 hours**

Overview of the human immune system, including study of the innate and adaptive immune systems, the mechanics of an immune response, antibodies and antigens, and immunopathology. This course is designed for pre-pharmacy and non-biology major pre-medical students. Three lectures per week. *Prerequisites: BIO-1110 Introduction to Biology; BIO-2250 Cellular Biology.*

**GBIO-4700 Bioethics Colloquium–Sp 1 hour**

An integrative bioethics project, including a written paper and oral presentation. *Prerequisite: Completion of other elements of Bioethics minor.*

**Geology (GEOL)**

Except where noted, general education courses are designed to meet the general education requirements for graduation. These courses will not count toward graduation requirements for majors found in the Department of Science and Mathematics unless they are specifically listed in the curriculum requirements for a major. A student majoring in science or mathematics may take these courses only as electives. However, any course listed for a science or mathematics major or minor may also count toward fulfilling general education requirements.

**GEOL-1110 Introduction to Physical Geology–Fa 4 hours**

An introductory study of the earth and its geological processes, including various alternative interpretations of earth history. Laboratory exercises will complement the lecture material and will include local field trips. Three weekly lectures and one weekly laboratory experience. This course satisfies the physical science requirement of the general education requirements. (Fee: \$150)

**GEOL-1120 Historical Geology–Sp 4 hours**

The earth's geological history from its beginning to the present. Topics of study include plate tectonics, biological evolution and the meaning of the fossil record, correlation, dating methods, and alternative views of earth history. Required field trips will study local fossils. Three lectures and one laboratory per week. *Prerequisites: GEOL-1110 Introduction to Physical Geology.* (Fee: \$150)

**GEOL-2030 3.5 hours****Geology of the National Parks for Geology Majors–Su**

This course will explore the geology of the national parks and surrounding areas in specific regions of the United States. It is a two week travel study course. Trip locations may vary from year to year. Six or more major areas will be explored on each trip. Students will be expected to complete a photographic atlas with appropriate geological descriptions of each stop and a term paper describing a particular feature of interest at one of the sites visited. Special emphasis will be placed on how geologic history is interpreted and placed into biblical and conventional frameworks. Students will learn how to make geological observations and take field notes. It is necessary for students to be in good physical shape for occasional hiking in rough terrain and at high altitudes, although requirements can be modified for students unable to do so. Special equipment may be required. *Prerequisite: Geology major and at least one previous GEOL course.* (Fee: will vary from year to year; will be used to cover lodging, car rental, gas and other expenses. Transportation to and from the trip starting location and food expenses will be covered by the students.)

**GEOL-2100 Mineralogy–Fa 4 hours**

The student will study the occurrence, associations, characteristics, and crystal chemistry of common minerals. Laboratory work will emphasize identification and recognition of minerals. *Prerequisite: GEOL-1110 Introduction to Physical Geology; CHEM-1110 General Chemistry I (corequisite).* (Fee: \$150) (even years)

**GEOL-2810 Geology Field Work and Research–Su 1–4 hours**

This course gives a student an opportunity to work alongside an active geologist in the field and/or the laboratory. The student must get approval from his advisor and submit a written description of the work to be performed before the experience begins. The student must submit notes and a summary of the work completed when the experience is over. Hours are variable depending on the length of the experience and the work completed. *Prerequisites: sophomore geology major and advisor approval of the proposal.*

**GEOL-3100 Geomorphology–Fa 4 hours**

The student will study the formation, development, and denudation of the earth's surface features as a function of rates, processes, and time. Landform analysis will be completed with topographic maps, aerial photographs, and stereo photographs. *Prerequisites: GEOL-1110 Introduction to Physical Geology; GEOL-1120 Historical Geology.* (Fee: \$150) (even years)

**GEOL-3200 Invertebrate Paleontology–Fa 4 hours**

Many aspects of the fossil record will be studied including preservation, variation, and identification of fossils. Uses of invertebrate fossils including biostratigraphy, paleoecology, and biogeography will be discussed. Various evolutionary concepts will be presented, including baraminology. Laboratory experiences will include required field trips and identification and recognition of North American fossil species. *Prerequisites: BIO-1110 Introduction to Biology; GEOL-1120 Historical Geology.* (Fee: \$150) (odd years)

**GEOL-3300 Petrology–Sp 4 hours**

Students will study the occurrence and origin of sedimentary, igneous, and metamorphic rocks and learn how to identify them. Required field trip. *Prerequisite: GEOL-2100 Mineralogy; CHEM-1120 General Chemistry II (corequisite).* (Fee: \$500) (even years)

**GEOL-3400 Structural Geology–Fa 4 hours**

Mechanics of rock deformation and the study of various structures in all types of rocks. Required field trip. *Prerequisite: GEOL-3300 Petrology; GEOL-3100 Geomorphology and PHYS-2120 General Physics II (corequisites).* (Fee:\$150) (odd years)

**GEOL-3600 Readings in Geology–Fa 1 hour**

Students will read and discuss a current text or series of papers. The purpose is to help the student become more familiar with the geological research and literature. Part of the course requirements may include attending a national or regional GSA conference. Course may be taken up to three times for credit. *Prerequisite: GEOL-1120 Historical Geology.* (Fee:\$150)

**GEOL-3800 3 hours****Philosophy of Science and Research Methods in Geology–Sp**

By its nature, geological research and its resultant interpretations are heavily paradigm-driven. This course will examine the scientific method and study the development of various scientific paradigms, especially those within geology. Students will learn productive ways to integrate their faith with science and how to apply that to a research method that arrives at conclusions without compromising data. The merits of various models of earth history will be critiqued. *Prerequisite: GEOL-1120 Historical Geology; 16 hours of geology courses and junior status.*

**GEOL-4100 Environmental Geology–Fa 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 department Chair (the course will be sponsored by another institution). The course will typically be taken following the student's junior or senior year. *Prerequisites: GEOL-3100 Geomorphology; GEOL-3300 Petrology; GEOL-3400 Structural Geology; and GEOL-4200 Stratigraphy and Sedimentology.*

**GEOL-4800 Senior Project–Fa, Sp 2 hours**

A capstone project including geological research, writing, and presentation of results. To be completed during one of the student's last two semesters of course work. *Prerequisite: senior status; GEOL-3800 Philosophy of Science and Research Methods in Geology.* (Fee: \$200)

**GEOL-4830 Research in Geology–Fa, Sp 2–3 hours**

Investigation of a geologic research project and its culmination in a scholarly research report (oral and/or written). Submission and approval of a research proposal must precede registration. May be repeated once for credit. *Prerequisites: completion of 16 hours in geology; junior status; and permission of instructor.* (Fee:\$200)

**GEOL-4880 Topics in Geology–Fa, Sp 1–3 hours**

Topics of special geological interest that are not in the existing curriculum are selected by the faculty. The topic should provide a logical extension of the student's academic plan and enhance the student's educational experience. *Prerequisite: completion of 16 hours in geology; junior status; and permission of instructor.*

**GEOL-4900 Independent Study in Geology–Fa, Sp 1–3 hours**

Supervised independent study of a particular geologic phenomenon. Submission and approval of a research proposal must precede registration. *Prerequisite: major in geology; approval of research proposal.*

**General Mathematics (GMTH)**

Except where noted, general education courses are designed to meet the general education requirements for graduation. These courses will not count toward graduation requirements for majors found in the Department of Science and Mathematics unless they are specifically listed in the curriculum requirements for a major. A student majoring in science or mathematics may take these courses only as electives. However, any course listed for a science or mathematics major or minor may also count toward fulfilling general education requirements.

**GMTH-1010 Introduction to Mathematics—Fa, Sp 3 hours**

Introduction to mathematical concepts including voting theory, apportionment and fair division, models of population growth, and graph theory. *Prerequisite: proficiency in mathematics.*

**GMTH-1020 College Algebra—Fa 3 hours**

Introduction to methods of algebraic analysis. Includes (but may not be limited to) many topics of intermediate algebra: the field axioms, linear functions, inequalities, systems of equations, determinants, and quadratic functions. This course, in conjunction with GMTH-1030 Precalculus, is designed to prepare the student for calculus. *Prerequisite: proficiency in mathematics; two years of high school mathematics; or permission of instructor.*

**GMTH-1030 Precalculus—Fa, Sp 4 hours**

Introduction to the principles of trigonometry and some advanced topics in algebra. Coverage includes, but may not be limited to, exponential, logarithmic, trigonometric, and circular functions, triangle problems, and vectors. This course, in conjunction with GMTH-1020 College Algebra, is designed to help prepare the student for calculus. *Prerequisites: proficiency in mathematics; GMTH-1020 College Algebra or equivalent; or permission of instructor.*

**GMTH-1040 3 hours****Calculus for Business/Social Science—Fa, Sp**

Introduction to the concepts of differential and integral calculus for students of business. Numerous applications from these areas will be considered. Does not apply toward major in mathematics. *Prerequisite: proficiency in mathematics.*

**GMTH-2110 Introduction to Biostatistics—Sp 3 hours**

An introduction to statistical methods that are of particular interest to biologists for experimental design and interpretation. *Prerequisites: BIO-1120 General Zoology; or BIO-2500 General Botany.*

**GMTH-3010 Proof and Mathematical Modeling—Sp 3 hours**

Proof by contradiction, contrapositive, and induction will be explored along with direct proof in the verification of conjectures and other mathematical propositions. Additionally, the formulation of discrete, statistical, and algebraic mathematical models, along with their use in solving problems, will be studied. Appropriate educational technology, including graphing calculators, spreadsheets, and geometric manipulation software will be used throughout. Does not count toward the B.A. or B.S. majors in mathematics or the B.A. in integrated mathematics education. *Prerequisites: EDUC-1800 Principles of Mathematics I; EDUC-2800 Principles of Mathematics II; GMTH-1020 College Algebra; MATH-1710 Calculus I.*

**GMTH-3100 Theory of Interest—Sp 3 hours**

Interest: simple and compound. Effective rate of interest. Time value of money; present and future. Cash flow calculations: loans, bonds, and investments. Annuities: due and immediate. Perpetuities. Yield. Amortization and sinking funds. Interest rate risk. Immunization. Financial derivatives. *Prerequisites: MATH-1720 Calculus II; corequisite: FIN-3710 Principles of Finance. (even years)*

**General Science (GSCI)**

Except where noted, general education courses are designed to meet the general education requirements for graduation. These courses will not count toward graduation requirements for majors found in the Department of Science and Mathematics unless they are specifically listed in the curriculum requirements for a major. A student majoring in science or mathematics may take these courses only as electives. However, any course listed for a science or mathematics major or minor may also count toward fulfilling general education requirements.

**GSCI-1010 Principles of Earth Science—Fa, Sp 3.5 hours**

A survey of the sciences of geology, oceanography, and meteorology. Major lecture topics include discussion of earth's geological history, minerals, rocks, dating, plate tectonics, glaciers, volcanoes, ocean currents, marine life, waves, the atmosphere, and weather systems. When appropriate, contrasting views of these subjects will be examined. Laboratory experiences include field trips to areas of local geological interest. Lecture three times per week and laboratory on alternate weeks. Satisfies the physical science requirement of the general education requirements. (Fee: \$75)

**GSCI-1020 Principles of Physical Science—Fa, Sp 3.5 hours**

A survey of the sciences of physics, chemistry, and astronomy. Major lecture topics include motion, force, energy, heat, waves, electricity, optics, quantum effects, periodic table, chemical bonds, chemical reactions, astronomical measurements, and the origin of the universe. Content of this course will be related to social and philosophical issues to emphasize a Christian's responsibility in a technological society. Lecture three times per week and laboratory on alternate weeks. This course satisfies the physical science requirement of the general education requirements. (Fee: \$75)

**GSCI-1030 Geology of the National Parks—Su 3.5 hours**

This course will explore the geology of the national parks and surrounding areas in specific regions of the United States. It is a two-week travel study course that fulfills the three and a half-hour laboratory physical science requirement. Trip locations may vary from year to year. Six or more major areas will be explored on each trip. Students will be expected to complete a photographic atlas with appropriate geological descriptions of each stop. Special emphasis will be placed on how geologic history is interpreted and placed into biblical and conventional frameworks. Students will learn how to make geological observations and take field notes. No previous geological knowledge is required. It is necessary for students to be in good physical shape for occasional hiking in rough terrain and at high altitudes, although requirements can be modified for students unable to do so. Special equipment may be required. Special course fees apply and will vary from year to year.

**GSCI-2010 Physical Science for Teachers—Fa, Sp 4 hours**

Introduction to a selection of core concepts of physics and chemistry for preservice elementary education teachers. Students will develop methods of learning science, with emphasis on inquiry, scientific method, and integrating common everyday objects and experiences with a view toward cultivating the excitement of studying God's creation. Three lectures with one weekly one-hour lab. Does not satisfy the physical science general education requirement. (Fee: \$75)

**GSCI-3010 Concepts in Middle School Science—Sp 4 hours**

This course highlights key concepts in middle school science by reviewing and extending concepts from previous science courses with an emphasis on the integration of earth sciences, physical sciences, and life sciences. Concepts addressed include the nature and history of science, the theories of biological and geological evolution, and cell theory. This course will include pertinent pedagogy for teaching stated concepts in a middle school setting. Three lectures and one laboratory session per week. *Prerequisites: GBIO-1000 Principles of Biology; GSCI-1010 Principles of Earth Science. CHEM-1000 Principles of Chemistry (recommended) (Fee: \$75) (even years)*

**GSCI-3060 4 hours****Environmental Science for Middle School Educators—Sp**

Introduction to the interdisciplinary study of the dynamic relationships that exist between the earth's organisms and their environment and how human activity affects these relationships. Students will identify and analyze environmental problems both natural and human-made and identify and explore sustainable solutions to the problems. This course will include pertinent pedagogy for teaching environmental science in a middle school setting. Three lectures and one laboratory session per week. This course does not satisfy the general education requirement for biology. *Prerequisites: GBIO-1000 Principles of Biology, GSCI-1010 Principles of Earth Science (Fee: \$100) (odd years)*

**Mathematics (MATH)****MATH-1710 Calculus I—Fa, Sp 5 hours**

First course of a two-course sequence covering basic concepts of analytic geometry and single variable calculus. Includes limits, transcendental functions, derivatives, applications of the derivative, single variable integration with introduction to numeric integration techniques, applications of integration including some solutions of differential equations, and additional integration techniques. *Prerequisite: GMTH-1030 Precalculus or equivalent; or permission of instructor.*

**MATH-1720 Calculus II—Fa, Sp 5 hours**

The second course of a two-course sequence covering the basic concepts of analytic geometry and single variable calculus. Includes sequences, series, expansion of functions into Taylor and power series, conic sections, plane curves, parametric equations, polar coordinates, vectors and geometry in three-space, vectors, and vector calculus. *Prerequisite: MATH-1710 Calculus I or equivalent or permission of instructor.*

**MATH-1880 Topics in Calculus—Fa, Sp, Su 1–3 hours**

This course is for students who are attempting to transfer credit for MATH-1710 or MATH-1720 Calculus I and II when those transferred courses lack some of the topics contained in MATH-1710 or MATH-1720. It requires full participation in a MATH-1710 or MATH-1720 course during the sections in which the student's transferred course is found to be deficient or in a stand-alone course offered during Summer School I. *Prerequisite: GMTH-1030 Precalculus or equivalent; permission of instructor. Corequisite: partial transfer credit for MATH-1710 and/or MATH-1720 or approved transient credit for a Calculus I or II course that will provide less than full credit for MATH-1710 or MATH 1720.*

**MATH-1990 3 hours****Beautiful Math Structures and Thinking—Fa**

This course introduces freshmen math majors to interesting mathematical ideas and applications beyond the usual scope of standard math courses. Topics include an introduction to propositional logic, function theory, and infinite sets. Other topics will be chosen from elementary number theory, modular arithmetic, error-correcting codes, Fibonacci numbers and the golden ratio, fractals, discrete dynamical systems and chaos, Euler and Hamilton Circuits, democracy and impossibility theorems, game theory, the Platonic solids, n-dimensional space, and other topics up to the discretion of the instructor.

**MATH-2210 Logic and Methods of Proof—Fa 3 hours**

Introduction to formal mathematical logic; emphasis on preparing students for the abstraction of upper-division courses. Special attention is given to the development of students' skills with a variety of methods of proof, using examples from numerous areas. *Prerequisites: MATH-1720 Calculus II; MATH-1990 Beautiful Math Structures and Thinking; or permission of instructor.*

**MATH-2510 Discrete Math for Computer Science—Sp 3 hours**

An introduction to mathematical foundations of computer science, including propositional and predicate calculus, methods of proof, sets and relations, recurrences, graphs and trees, and program correctness and proofs. This course does not satisfy any requirements for the B.A. or B.S. in mathematics or the B.A. in integrated mathematics education. *Prerequisite: MATH-1710 Calculus I.*

**MATH-2710 Calculus III—Fa, Sp 3 hours**

Introduction to differential and integral calculus of several variables, multiple integrals, vector analysis, line integrals, and surface integrals. *Prerequisite: MATH-1720 Calculus II or equivalent or permission of instructor.*

**MATH-2740 Differential Equations—Fa, Sp 3 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, resumés, 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 B.A. or B.S. majors in mathematics. *Prerequisites: MATH-2210 Logic and Methods of Proof.*

**MATH-3110 Probability and Statistics I—Fa 3 hours**

Probability models, random variables, probability distributions, estimation, and hypothesis tests are studied from theoretical and practical viewpoints. *Prerequisite: MATH-1720 Calculus II.*

**MATH-3240 Introduction to Operations Research–Fa 3 hours**

Formulation and analysis of mathematical models for the optimal solution of decision making problems under certainty. Course content includes linear programming; the simplex method, duality and sensitivity analysis. This course applies probabilistic analysis to such nondeterministic models as queueing models, elements of dynamic programming, and Markov decision analysis. *Prerequisites: MATH-3610 Linear Algebra; MATH-3110 Probability and Statistics; or permission of the instructor. (even years)*

**MATH-3500 Number Theory–Fa 3 hours**

Introduction to most of the topics of elementary number theory such as modular arithmetic, prime factorizations, linear diophantine equations, the Chinese remainder theorem, quadratic reciprocity, Pythagorean triples, number theoretic functions, and related topics. Concrete examples will illustrate the concepts and abstract reasoning will develop the theories considered in the course. *Prerequisite: MATH-2210 Logic and Methods of Proof. (odd years)*

**MATH-3550 Discrete Math: Graph Theory–Fa 3 hours**

Introduction to the basic concepts of graph theory and discrete mathematics problem-solving. Topics covered include elements of graph theory, covering circuits, graph coloring, trees and searching, and network algorithms. *Prerequisite: MATH-2210 Logic and Methods of Proof. (odd years)*

**MATH-3560 Discrete Math: Combinatorics–Sp 3 hours**

Study of combinatorial reasoning, focusing on enumeration. Intended to develop a proficiency in methods of enumerative problem solving. Topics chosen from areas such as counting methods for arrangements and selections, permutations and combinations, generating functions, partitions, and recurrence relations. *Prerequisite: MATH-2210 Logic and Methods of Proof. (odd years)*

**MATH-3610 Linear Algebra–Sp 3 hours**

Introduction to the algebra of linear equations, including determinants, matrices, vector spaces, eigenvalues, eigenvectors, and linear mappings. *Prerequisite: MATH-1720 Calculus II or equivalent.*

**MATH-3710 Advanced Calculus–Sp 3 hours**

Topics in function theory, vector analysis, differential calculus of several variables, vector differential calculus of several variables, integral calculus of several variables, vector integral calculus of several variables, and infinite series. *Prerequisite: MATH-2710 Calculus III or equivalent or permission of instructor. (even years)*

**MATH-3740 Complex Variables–Sp 3 hours**

Introduction to complex arithmetic, differentiation: analytic functions, Cauchy-Riemann equations, harmonic functions, elementary functions and their mapping properties, integration: Cauchy's Theorem, Cauchy's Integral Formula, Taylor and Laurent series, poles, residues, and the residue theorem. *Prerequisite: MATH-1720 Calculus II. (odd years)*

**MATH-3750 Introduction to Dynamical Systems–Sp 3 hours**

Topics include one-dimensional flows and bifurcations, phase portraits, linearization and classification of equilibrium points, limit cycles, chaos, one-dimensional maps, and fractals. *Prerequisite: MATH-2740 Differential Equations. (even years)*

**MATH-3760 Numerical Analysis–Sp 3 hours**

Analysis of computational error, solutions of equations of one variable, interpolation, numerical differentiation and integration, finite difference methods for solving ordinary differential equations, solving linear algebraic systems, and least squares approximations. *Prerequisite: CS-1210 C++ Programming; MATH-2710 Calculus III; MATH-2740 Differential Equations. (odd years)*

**MATH-3800 Research Methods–Sp 1 hour**

This course will introduce the mathematics major to the various resources and methods available for researching topics in mathematics. This could include the use of library resources at Cedarville University, use of Internet resources, WWW searches, and a tour of the library at a larger university, where journals and indices of importance can be referenced. *Prerequisites: MATH-2210 Logic and Methods of Proof; ENG-1400 English Composition. (Fee: \$50)*

**MATH-4110 Probability and Statistics II–Sp 3 hours**

Second course of a two-course sequence covering basic concepts of statistics. Topics chosen from the following: hypothesis tests, regression analysis, quality control, and non-parametric statistics. *Prerequisites: MATH-3110 Probability and Statistics I.*

**MATH-4210 Mathematical Methods for Physicists–Fa 3 hours**

Advanced mathematical methods used in the solution of physics problems. Topics include curvilinear coordinates, vector analysis, and solutions to partial differential equations using Fourier, Bessel and Legendre functions. *Prerequisites: MATH-2710 Calculus III; MATH-2740 Differential Equations. (even years)*

**MATH-4410 Euclidean and Non-Euclidean Geometry–Sp 3 hours**

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, metrizable, 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  $\mathbb{R}^n$  and functions including continuity and uniform continuity, connectedness, convexity, compactness, various types of convergence, limits, differentiability, and Riemann integration, measurability, and  $L_n$ . *Prerequisites: MATH-2210 Logic and Methods of Proof. (odd years)*

**MATH-4800 Capstone Experience in Mathematics–Fa, Sp 3 hours**

The course will allow students to deeply research an important topic in mathematics, both individually and collectively, and to present their findings from library research as well as personal work. *Prerequisites: MATH-3800 Research Methods in Mathematics; 15 hours of courses beyond MATH-1720 Calculus II; permission of instructor. (Fee: \$20)*

**MATH-4880 Topics in Mathematics–Fa, Sp 1–3 hours**

Some typical topics are linear programming, numerical analysis, stochastic calculus, non-parametric statistics, partial differential equations, or mathematical modeling. This course is intended to be a topic not in the current curriculum that is a logical extension and development of the student's academic plan. *Prerequisite: permission of instructor.*

**MATH-4900 1–3 hours****Independent Study in Mathematics**–Fa, Sp

Independent research in the various branches of mathematics and allied fields of application. Submission and approval of a research proposal must precede registration. *Prerequisite: major in mathematics or permission of research advisor.*

**Mathematics Education (MTED)****MTED-3110 Clinical Teaching in Mathematics**–Fa, Sp **1 hour**

Students are assigned to assist a college instructor in classroom and laboratory teaching, evaluation, and related responsibilities. The student must complete 40 clock hours of clinical involvement in each teaching field for which licensure is desired. *Prerequisite: completion of Introduction to Education Block.*

**MTED-3120 Teaching Mathematics**–Fa **3 hours**

Designed to introduce prospective secondary school mathematics teachers to the curriculum, materials, and methods of classroom teaching. *Prerequisite: admission to the Teacher Education Program.*

**Physics: General Education (PHYS)**

Except where noted, general education courses are designed to meet the general education requirements for graduation. These courses will not count toward graduation requirements for majors found in the Department of Science and Mathematics unless they are specifically listed in the curriculum requirements for a major. A student majoring in science or mathematics may take these courses only as electives. However, any course listed for a science or mathematics major or minor may also count toward fulfilling general education requirements.

**PHYS-1010 College Physics I**–Fa **5 hours**

Basic concepts of mechanics and thermodynamics using algebra and trigonometry. This is the first of a two-course sequence intended for students in the life sciences and pre-professional programs. Topics include kinematics, motion in two dimensions, forces and motion, work and energy, momentum, circular motion, gravitation, waves, phases of matter, heat, and the laws of thermodynamics. Four lectures and one two-hour laboratory per week. *Prerequisite: high school trigonometry; or GMTH-1030 Precalculus or equivalent.* (Fee: \$100)

**PHYS-1020 College Physics II**–Sp **5 hours**

Basic concepts of electricity and modern physics using algebra and trigonometry. This is the second of a two-course sequence intended for students in the life sciences and preprofessional programs. Topics include electricity, magnetism, AC circuits, geometrical and physical optics, relativity theory, quantum theory and other modern physics topics. Four lectures and one two-hour laboratory per week. *Prerequisite: PHYS-1010 College Physics I or equivalent.* (Fee: \$100)

**Physics: Major (PHYS)****PHYS-2110 General Physics I**–Fa, Sp **4 hours**

Basic concepts of mechanics using calculus. This is the first of a three-course sequence intended for students in the physical sciences and engineering programs. Topics include linear and rotational motion in three dimensions, oscillatory motion, gravitation, fluid mechanics, and basic concepts of wave motion. Three lectures and one two-hour laboratory per week. *Prerequisites: MATH-1710 Calculus I; MATH-1720 Calculus II; MATH-1720 may be co-enrolled with permission of instructor.* (Fee: \$100)

**PHYS-2120 General Physics II**–Fa, Sp **4 hours**

Basic concepts of electricity and magnetism, light, and optics using calculus. This is the second of a three-course sequence intended for students in the physical sciences and engineering programs. Topics include electricity, magnetism, Maxwell's equations, DC and AC circuits, geometrical and physical optics. Three lectures and one two-hour laboratory per week. *Prerequisites: MATH-1720 Calculus II; PHYS-2110 General Physics I.* (Fee: \$100)

**PHYS-2130 General Physics III**–Fa **2 hours**

Basic concepts of thermodynamics and modern physics using calculus. This is the third of a three-course sequence intended for students in the physical sciences programs. Topics include heat and thermodynamics, relativity theory, quantum theory, atomic and nuclear physics. *Prerequisites: MATH-1720 Calculus II; PHYS-2120 General Physics II; PHYS-2120 may be co-enrolled with permission of instructor.*

**PHYS-3110 Intermediate Physics Laboratory**–Fa **2 hours**

Designed to reinforce concepts of the advanced physics courses and develop critical research and analysis skills. This course provides laboratory experience in such topics as oscillatory motion and waves, mechanics, electricity and magnetism, thermodynamics, and quantum mechanics. During this semester the student will develop their prospectus for their advanced laboratory project. Laboratory skills for planning, setup, documentation, and analysis using the scientific method will be emphasized. *Prerequisite: 3 hours of a 3000- or 4000-level physics course.* (Fee: \$100)

**PHYS-3310 Theoretical Mechanics I**–Sp **3 hours**

Derivation of the motion of a point object through 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 I**–Fa **3 hours**

Electricity and magnetism from an advanced viewpoint using the methods of vector calculus. Includes electrostatics, Gauss' Law, Poisson's equation, Laplace's equation, dielectric media, electric currents, and magnetostatics. *Prerequisites: PHYS-2120 General Physics II; MATH-2710 Calculus III.* (odd years)

**PHYS-3510 Modern Physics**–Sp **3 hours**

Introduction to relativity theory, quantum theory, including Schrodinger's Equation, and its basic applications, and atomic structure. *Prerequisite: PHYS-2130 General Physics III.*

**PHYS-3800 Research Methods in Physics–Sp 1 hour**

Reinforces concepts of the advanced physics courses and develops critical research and analysis skills. This course will focus on basic library, research, and laboratory skills for planning, setup, documentation, and analysis using the scientific method. Selected software will be introduced and used to collect data, analyze results, and document findings. There will be several laboratory sessions with experiments selected from oscillatory motion and waves, intermediate mechanics, intermediate electricity, intermediate magnetism, thermodynamics, or quantum mechanics. *Prerequisite: PHYS-2130 General Physics III.* (Fee: \$50)

**PHYS-4110 Advanced Physics Laboratory–Sp 2 hours**

The advanced laboratory experience is designed to reinforce concepts of the advanced physics courses and to develop critical research design, documentation, analysis, and presentation skills. The advanced laboratory provides additional experience in optical, radiation, wave, advanced mechanics, advanced electromagnetism, advanced thermodynamics, and quantum mechanics. During this semester the students will be conducting their advanced laboratory project, collecting data, and documenting results. Laboratory skills for planning, setup, documentation, analysis, and briefing using the scientific method will be emphasized. *Prerequisite: PHYS-3110 Intermediate Physics Lab.* (Fee: \$100)

**PHYS-4210 Mathematical Methods for Physicists–Fa 3 hours**

Advanced mathematical methods used in the solution of physics problems. Topics include curvilinear coordinates, vector analysis, and solutions to partial differential equations using Fourier, Bessel and Legendre functions. *Prerequisites: MATH-2710 Calculus III; MATH-2740 Differential Equations; 3 hours of a 3000 or 4000-level physics course.* (odd years)

**PHYS-4310 Theoretical Mechanics II 3 hours**

Principles of mechanics applied to systems of particles. Topics include rigid body motion, Hamilton's equations, continuous media and nonlinear oscillators. *Prerequisites: PHYS-3310 Theoretical Mechanics I.*

**PHYS-4410 Electromagnetic Theory II 3 hours**

Continuation of PHYS-3410. Includes magnetic properties of matter, electromagnetic induction, magnetic energy, slowly varying currents, Maxwell's equations and their applications, and introductory electrodynamics. *Prerequisite: PHYS-3410 Electromagnetic Theory I.*

**PHYS-4450 Optics 3 hours**

Introduction to the study of classical and modern optics, including geometric optics, wave optics, and quantum optics. Topics include thin lenses, thick lenses and systems of lenses, mirrors, aberrations, lens design, interference, coherence, diffraction, polarization, and holography. *Prerequisites: PHYS-2120 General Physics II; MATH-2710 Calculus III.*

**PHYS-4520 Quantum Mechanics I–Fa 3 hours**

An introduction to the principles and theory of quantum mechanics including: the wave function, the time-independent Schrodinger's Equation, mathematical formalism of quantum mechanics, quantum mechanics in three dimensions, and systems of identical particles. *Prerequisite: PHYS-3510 Modern Physics.* (even years)

**PHYS-4530 Quantum Mechanics II 3 hours**

Continuation of Quantum Mechanics I. Topics treated include identical particles, spectral hyperfine structure, magnetic properties of matter, external fields, atomic spectroscopy of outer electrons, atomic spectroscopy of inner electrons, high-energy photon effects, molecular binding and spectra, emission and absorption of light, many particle system, W.K.B. approximation, angular momentum theory. *Prerequisite: PHYS-4520 Quantum Mechanics I.*

**PHYS-4800 Senior Seminar–Physics–Fa, Sp 1 hour**

A presentation of the basic principles of the major disciplines of the sciences with a focus on the interrelationships of the science disciplines to each other. Students present a paper from library or laboratory research in their area of physics with a focus on integration. Each student must obtain approval of the topic from their advisor and seminar instructor and must set the date of presentation before enrolling in the course. A paper and oral presentation are required that include the background, setup, data collection, analysis, and conclusions from their research. The student must also attend a minimum of 10 seminars during the senior year. Guest lecturers and faculty members may present papers at the invitation of the instructor. *Prerequisite: Senior status; PHYS-3110 Intermediate Physics Lab; attendance of a minimum of 10 seminars during the sophomore and junior years; permission of instructor.*

**PHYS-4880 Topics in Physics 1–3 hours**

Study of topics of interest from modern and classical physics such as quantum theory, relativity, statistical mechanics, lasers, solid state physics, advanced classical mechanics, and atmospheric physics. *Prerequisites: PHYS-2130 General Physics III; MATH-2710 Calculus III.*

**PHYS-4900 Independent Study in Physics 1–3 hours**

Independent research in the various branches of physics and allied fields of application. Submission and approval of a research proposal must precede registration. *Prerequisite: permission of instructor.* (Fee: \$25/hour)

**Science Education (SCED)****SCED-3110 Clinical Teaching in Science–Sp 1 hour**

This course is designed to provide preservice science teachers clinical experiences within grad 7–12 classrooms. Students are assigned to assist cooperating science teachers in facilitating student learning in science content and process skills. Preservice science teachers will plan instructional outcomes, teaching strategies and assessments for the experience and implement them in the local school science classroom. *Prerequisites: teacher education core courses.*

**SCED-3120 Teaching Science–Fa 3 hours**

Introduces prospective secondary school science teachers to the curriculum, materials, and methods of classroom and laboratory science teaching. Attention will be given to the philosophy and education psychology theories that are currently influencing science education and the methods of instruction that arise from these theories. Teacher education students participate in activities and complete assignments designed to provide experience in science lesson planning, acquisition of classroom and laboratory resources, and strategies of maintaining science laboratory safety. *Prerequisite: admission to the Teacher Education Program.* (Fee \$100)

**Department of Social Work  
Course Descriptions****Social Work (SWK)****SWK-1100 Total Immersion Experience–Sp 1 hour**

Available to all students. Preprofessional experience for students interested in social work. Participation with a social service agency, shadowing a social worker (who has a degree in social work or who is licensed as a social worker) for five full and consecutive days to better understand: (1) social work as a vocation; (2) the vulnerable populations social workers serve; (3) the professional helping relationship; and (4) the agency setting. Students must complete this course before applying for admission to the program. (Fee: \$60)

**SWK-2330 Introduction to Social Work–Fa, Sp 3 hours**

Available to all students. This course gives an introduction to the social work profession and a variety of fields of social work practice. It includes a study of the historical development and professionalization of social work. There will be an overview of the integration of faith and practice and the program's poverty focus. Crosslisted as SOC or SWK. (Fee: \$55)

**SWK-2350 Field Survey–Fa, Sp 2 hours**

Experiential learning through visitation and observation of social workers and interdisciplinary teams in agency settings. Course provides detailed exposure to fields of social work practice, the role of social work, and agency structure. There is a special emphasis on understanding the dynamics of the professional helping relationship given the client's membership in certain groups. Does not count toward social science elective for general education. (Fee: \$40)

**SWK-2500 Social Work with Aging Populations–Fa 3 hours**

This course is designed to equip the student for beginning professional social work practice with the elderly population. Focus is on the issues related to aging, including wellness in senior living as well as disease. Students will gain knowledge of the varied social work careers that serve the aged as well as agencies that serve the elderly.

**SWK-2820 Social Work in Mental Health Settings–Sp 3 hours**

This survey course exposes the student to the complexities of social work practice in mental health environments in the context of a biblical worldview. The course teaches how mental health diagnoses are defined and identified. It examines the systems of care that currently exist for the mentally ill, their families, and the community and the roles social workers fill within these systems.

**SWK-2840 3 hours****Concepts of Chemical Dependency–Fa, Sp, Su**

Available to all students. This course presents an overview of the social, economic, political, legal, spiritual, and ethical considerations concerning the use and abuse of alcohol and other drugs in our culture. Various philosophies and perspectives on drugs and abuse as well as treatment and prevention options for individuals and families will be discussed. Crosslisted as CRJU, PSYCH, SOC, or SWK.

**SWK-2900 Ethics in the Helping Professions–Sp 3 hours**

This course is designed to introduce the student to current issues and ethical dilemmas confronting professional helpers. The course encourages development of critical thinking skills by looking at dilemmas from a multifaceted point of view. Codes of ethics for the various helping professions are reviewed and emphasis is placed on understanding these codes. The course strives to provide the student a foundation in basic concepts of ethics and values, an understanding of the complexity of ethical decision making, and a sense of how their own values affect practice. The primary focus of this course is ethics, critical thinking, decision making, and self awareness. Crosslisted as SOC or SWK.

**SWK-3010 3 hours****Human Behavior and the Social Environment–Fa**

This course will provide an examination of the social systems approach to understanding human behavior with families, groups, organizations, and communities. Particular focus will be on the relationship among biological, social, psychological, and cultural systems as they affect and are affected by human behavior. *Prerequisite: admission to the social work program.*

**SWK-3020 3 hours****Generalist Social Work Practice with Multicultural Groups–Fa, Sp**

This course teaches an understanding of the cultural values of diverse groups and their impact on the group process and the importance of being a culturally sensitive group leader. Emphasis is given to using a problem-solving and group decision-making process in practicing group work with multicultural, small groups, communities, and organizations. *Prerequisite: admission to the program or permission of the instructor.* (Fee: \$45)

**SWK-3110 Social Welfare Programs and Policy–Fa 4 hours**

Survey of the American social welfare system. Analysis of the history, purpose, programs, and assessment of this system from a biblical theistic point of reference. Examines social welfare policies and programs in relation to their effects on specific populations in need in U.S. society. Within a historical and political context, current social welfare programs and policies are further examined in terms of underlying assumptions and values, substance, implementation, and effectiveness. Considers major questions of social choice and the underlying criteria for the funding and delivery of social services. Policy analysis will be a major focus. Innovative programs and models that the churches could consider will be discussed and developed. *Prerequisite: admission to the social work program.* (Fee: \$35)

**SWK-3210 4 hours****Social Work Practice with Individuals and Families–Sp**

This 4-hour course is taken concurrently with 16 hours per week field experience designed to teach social intervention theory with practice. Emphasis will be given to the basic principles and values of practice in acquiring values, skills, theory, and principles of social work practice as well as the skill developments essential to beginning social work relationships. Intervention strategies for work with families and target groups are presented with an orientation toward problem-solving. The goal of this course is to assist the student in integrating theory with practice and in gaining awareness of the professional use of self. Professional writing skills are further developed. *Prerequisites: SWK-3010 Human Behavior and the Social Environment; admission to the social work program.*

**SWK-3430 Junior Seminar I–Fa 1 hour****and SWK-3440 Jr Field Experience I–Fa 3 hours**

Junior Field Experience I is the placement of students in a poverty focused social service agency. The first four weeks will be one hour orientation sessions designed to inform and equip the student to complete all assignments required before entering their junior experience. Each student will be in field for a minimum of 75 hours, practicing eight hours weekly with clients and agency staff under the supervision of a qualified field instructor. Seminar class will meet once a week for one hour, where the student will receive input from peers and faculty. *Prerequisite: admission to the social work program. Corequisite: It is recommended that SWK-3430 and SWK-3440 be taken concurrently.* (Fee: \$150)

**SWK-3450 Junior Seminar II–Sp 1 hour****and SWK-3460 Jr Field Experience II–Sp 3 hours**

Junior Field Experience II is the placement of students in a poverty-focused social service agency. Each student will be in field for a minimum of 75 hours, practicing eight hours weekly with clients and agency staff under the supervision of a qualified field instructor. Seminar class will meet once a week for one hour where the student will receive input from peers and faculty. The last four weeks will be one-hour orientation sessions designed to inform and equip the student to complete all assignments required before entering their senior field seminar. *Prerequisite: admission to the social work program. Corequisite: It is recommended that SWK-3450 and SWK-3460 be taken concurrently.* (Fee: \$150)



**SWK-4210 3 hours****Social Work Practice with Diverse Populations–Fa**

This course is the second part of a three-course sequence in acquiring values, skills, and knowledge of generalist social work practice. Intervention strategies for practice with a wide variety of populations will be presented, including people of different religions; women; lesbian, gay, bi-sexual, and transgendered people; children and youth; the elderly; disabled; Appalachian; African Americans; Asian Americans and Pacific Islanders; American Indians; Mexican Americans; Hispanics and Puerto Ricans; and refugees and immigrants. *Prerequisite: admission to the social work program.* (Fee: \$15)

**SWK-4220 4 hours****Social Work Practice with Communities and Organizations–Sp**

Designed to complete the undergraduate program and thus equip the student for beginning professional social work practice. Focus is on competency in social work practice in multiple macro settings as a generalist in problem solving and social change. *Prerequisites: admission to the social work program; SWK-4210 Social Work Practice with Diverse Populations.* (Fee: \$80)

**SWK-4440 Special Topics-Social Work 1–3 hours**

Investigation of specific topics in Social Work that have intrinsic worth and engage student interest.

**SWK-4510 Senior Seminar I–Fa 2 hours****and SWK-4560 Senior Field Experience I–Fa 6 hours**

This course offers students the opportunity to practice social work 16 hours weekly with professional supervision. A seminar is held two hours weekly in which students submit their own practice record for critical study and offer feedback to their peers. Emphasis is placed on the integration of students' social work theoretical knowledge and skills as they enter the profession. Students must complete a minimum of 225 hours in field. *Prerequisite: admission to the social work program. Corequisite: It is recommended that SWK-4510 and SWK-4560 be taken concurrently.* (Fee: \$250)

**SWK-4520 Senior Seminar II–Sp 2 hours****and SWK-4570 Senior Field Experience II–Sp 6 hours**

These courses offer students the opportunity to practice social work 16 hours weekly, with professional supervision. A seminar is held two hours weekly in which students submit their own practice record for critical study and offer criticism to their peers. Emphasis is placed on the integration of the students' social work theoretical knowledge and skills as they enter the profession. Students must complete a minimum of 225 hours in field. *Prerequisite: admission to the social work program. Corequisites: It is recommended that SWK-4520 and SWK-4570 be taken concurrently.* (Fee: \$250)

**SWK-4610 Statistics for Social Workers–Fa 3 hours**

This course provides an introduction to the conceptual and quantitative tools used to describe and interpret data in the conduct of social work practice and research. Students learn how to select, calculate, analyze, and interpret statistics applicable to common social work situations related to direct practice, administration and planning, and policy making. Students will be able to recognize the statistical impact that race, gender, age, sexual orientation and other relevant variables have on many psycho-social-spiritual variables during computer labs using SPSS statistical software and current GSS database. *Prerequisite: admission to the social work program or permission of the instructor; students must have satisfied Cedarville's mathematics proficiency requirement before enrolling.*

**SWK-4620 Social Work Research Methods–Sp 3 hours**

Designed to survey the basic process of research methods as practiced in the social sciences. Underlying principles of science and logic are emphasized and special attention is directed toward the recognition of common sources of error and bias in the implementation and interpretation of research studies as it affects the outcomes of research utilization. Students will be better prepared to recognize the impact of special population variables (age, race, gender, etc.) on the research process. *Prerequisite: admission to the social work program.*

**SWK-4950 1–3 hours****Independent Study in Social Work**

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. *Prerequisite: permission of the instructor.*



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## Financial Information

### University Financial Operation Policy

The University keeps the application fee, tuition, room, board, and other fees as low as possible to be consistent with responsible operation. The revenue from students does not cover the total cost of operation.

Individuals and churches who desire to share in the preparation of young people for effective Christian service in all walks of life partially support the University. Some funds are received from interested businesses, industries, and foundations. Student costs as stated are subject to change upon reasonable notification by the University.

### Student Costs

#### Tuition — Undergraduate

Block tuition (12–17 credits).....	\$13,503
Under block rate per credit (1–11.5 credits).....	\$1,022
Block overload rate per credit (17.5 credits and above).....	\$699
Pharmacy courses (PPHR) tuition per semester credit.....	\$908

#### Tuition — College Now

Per semester credit.....	\$160
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#### Audit tuition

Within block .....	no additional charge
Under block or over block rate per credit .....	\$413
Test-out fee per course .....	\$413

#### Fees

Application fee .....	\$30
Board per semester	
Group A Meal Plans - fall/spring .....	1,473
Group B Meal Plans - fall/spring .....	1,360
Car registration fee - annual .....	100
Drop/add (course) fee .....	5
Graduation fee .....	50
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
Online course technology fee per credit .....	35
Returned item fee .....	20
Reservation deposit.....	250
Room deposit (refundable upon withdrawal) .....	100
Room fall/spring per semester.....	1,854
Townhouse rate per semester .....	2,654
Student Life fee per semester	
Full-time students.....	100
Part-time students.....	50
Students taking 5 credits or less AND distance learners .....	0
Transcript fee .....	10

\*Senior citizens may enroll in courses for credit or no credit on an available space basis at no tuition charge. Senior citizens are those individuals 62 years of age or older who are considered to be retired according to the Social Security Administration. Please complete a form obtained from the Cedarville University Human Resources Department. Call Ext. 7885 on campus.



### Summary of Costs — Undergraduate

#### Institutional Costs

Estimated basic costs for the academic year of 2015–16 (excluding transportation, personal expenses, books, and laboratory fees):

Tuition (based on an average of 32 semester hours).....	\$27,006
Board (Weighted average) (meal plan) .....	2,834
Room .....	3,708
Student Life fee.....	200
<b>Total Estimated Costs .....</b>	<b>\$33,748</b>

#### Miscellaneous Costs

Other yearly expenses may be estimated as follows:

Books and supplies .....	\$1,200
Personal expenses (including clothing, recreation, and personal items) Note: laundry included with room .....	1,700
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:

	<b>Fall 2015</b>	<b>Spring 2016</b>
First Payment Due:	Aug. 4, 2015	Jan. 5, 2016
Second Payment Due:	Sept. 1, 2015	Feb. 1, 2016
Third Payment Due:	Oct. 1, 2015	March 1, 2016
Fourth Payment Due:	Nov. 1, 2015	April 1, 2016

**A student is not considered financially registered until at least the first one-fourth payment has been received by the Cashiers Office.** Students who do not make financial arrangements for the first payment due on their University bill will not be permitted to attend the University. Failure to make subsequent payments could result in the loss of dining hall and library privileges and the withholding of grades and online registration.

## Making Payment

Students and parents may pay their University bill using several payment methods, including check, cash (in person), debit/credit card with a convenience fee, or online through our EZPAY system. 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.  
Payment by Internet, please visit: [cedarville.edu/ezpay](http://cedarville.edu/ezpay)

For more information on payment options, visit the Cashiers Office website at [cedarville.edu/cashiers](http://cedarville.edu/cashiers).

## Notification of the University Bill

Students who preregister will receive an invoice 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 using CedarInfo and selecting "View your student account."



## Invoices and Statements Online

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

## Payment Penalties

Students who fail to make acceptable payment arrangements within a reasonable period of time will be denied access to the dining hall and library until such arrangements are made. Students who do not make payments by the stated due dates will be charged \$25. Students with unpaid balances at the end of the semester may be denied grade reports, transcripts, diploma, or enrollment in the next semester. Students with past due accounts will also be responsible for any fees incurred in the collection of their past due account.

## Interest Rates

An annual interest rate of 13 percent (1.083 percent per month) will be charged during the academic year on accounts of current students. An annual interest rate of 15 percent (1.25 percent per month) will be charged during the academic year on accounts of students no longer enrolled and on all student accounts during the summer months. (May–July)

## Prepayment Incentive Credit Plan (PIC-Plan)

This plan enables a student to earn interest on a student account that has a credit balance of \$500 or more on the first day of the calendar month. The PIC-Plan account and the student account are one and the same. PIC-Plan interest is taxable and anyone earning \$10 or more in interest will receive a 1099-INT form. Please go to [cedarville.edu/cashiers](http://cedarville.edu/cashiers) for the maximum deposit amount and the current interest rate.

## Withdrawals From a Student Account

Students may withdraw cash from their student account during the semester, provided they have a credit balance. Cash withdrawals may not exceed \$100 per week. No more than two cash withdrawals may be made per week. Withdrawals of amounts greater than \$100 are issued by EFT deposit; requests can be made by using CedarInfo by selecting "Request a payment from your student account" under Financial Transactions. Refunds are issued within three to four business days of the request.

## New Student Reservation Deposit Refund

A reservation deposit must be submitted by new students as an indication of the intention to enroll. The amount of the deposit is \$250. This money will be credited to the student's account and

used to cover first semester expenses. A student must submit a reservation deposit in order to be registered for courses.

The reservation deposit is fully refundable if the request for refund is received in writing before the reservation deposit deadline. No refunds are available after the deposit deadline date.

Reservation deposit deadlines are as follows:

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

### Continuing Student Reservation Deposit Refund

Full (100 percent) refunds will be made to continuing students who notify the University by June 1 of their intent to withdraw. If a continuing student notifies the University between June 2 and July 1 of their intention not to return fall semester, \$150 of their deposit will be refunded. No refunds will be made after July 1.

### Withdrawal Refunds

#### Tuition

Students withdrawing from the University before the end of a semester may request a refund from the Cashiers Office. Refunds may be requested anytime after the beginning of a semester. The effective date of the withdrawal from the University is the last day of class attendance as determined by the Office of the Registrar.

Processing of refunds will begin the third week of the semester. Tuition refunds for withdrawal are granted on this schedule:

### Tuition Refund Schedule

	Withdraw from University	Withdraw from Class
<b>16-Week Class</b>		
Week* class begins	100%	100%
Week* 1 (first full week)	75%	75%
Week* 2	50%	0%
Week* 3	25%	0%
<b>12-Week Class</b>		
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%
<b>8-Week Class</b>		
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%
<b>4-Week Class</b>		
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%
<b>For classes 3 weeks or less</b>		
2 weekdays** from start of class	100%	100%
3 weekdays** from start of class	0%	0%
<b>All other Classes</b>		
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.

#### Board/Meal Plan

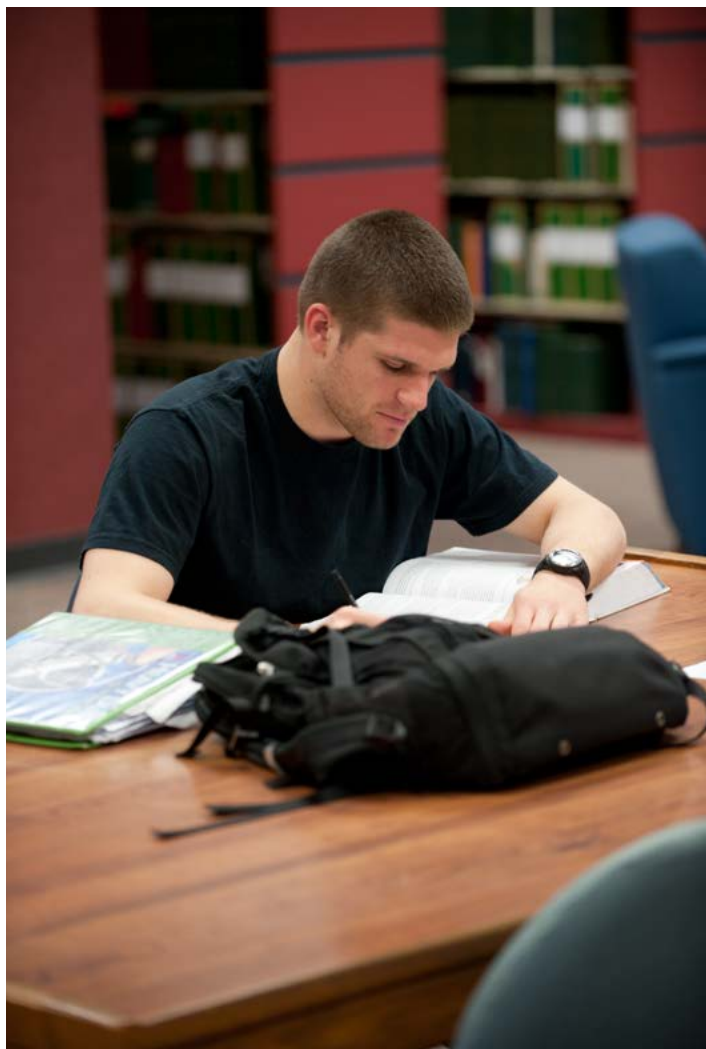
Board charges will be refunded on a prorated weekly basis. Board weeks begin on Sunday and end on Saturday. Board refunds are computed based on the last day of residency. Board contracts are required for all students living in the residence halls. Students may choose from seven available meal-plan options.

#### Room

Rooms are reserved for each student for an entire semester. No refund of room rent is made except in cases of severe illness or incapacity. Written confirmation of the illness or incapacity must be provided by the director of University Medical Services or a physician. Room rent will then be refunded on a prorated basis.

#### Other Fees

No other fees are refundable except for withdrawal within the first calendar week of the semester.



## Federal Refund Policy

A portion of Title IV grant or loan funds must be returned to the Title IV programs upon a Title IV recipient's withdrawal from the school.

### *Withdrawal date*

The day the student withdraws is the date (determined by the school):

- The student began the withdrawal process prescribed by the school;
- The student otherwise provided the school with official notification of the intent to withdraw; or
- For the student who does not begin the school's withdrawal process or notify the school of the intent to withdraw, the mid-point of the period of enrollment for which Title IV assistance was disbursed (unless the institution can document a later date).

### *Percentage of the payment period or period of enrollment completed*

This calculation is derived by dividing the number of days the student completed into the total number of days in the semester.

### *Calculation of Title IV assistance earned*

Up through the 60% point of time, the percentage of assistance earned is equal to the percentage of the period of enrollment for which it was awarded that was completed as of the day the student withdrew. If the student withdrawal occurs after the 60% point, then the amount is 100%.

### *Responsibility of the school*

The school shall return the lesser of the unearned amount of Title IV assistance or an amount equal to the total institutional charges the student incurs for the period of enrollment of which the assistance was awarded, multiplied by the unearned percentage of awarded Title IV grant and loan assistance.

### *Responsibility of the student*

Students shall return unearned Title IV assistance minus the amount the school returns.

### *Order of return of Title IV funds*

Excess funds returned by the school or student are credited to outstanding Title IV loan balances for the student or made on the student's behalf for which a return of funds is required. Excess funds must be credited to outstanding balances in the following order:

1. Unsubsidized Stafford loans
2. Subsidized Stafford loans
3. Federal Perkins loans
4. Federal PLUS loans
5. Federal Pell grant
6. Federal SEOG grant
7. Federal TEACH grant

## Veterans Training Benefits and Dependents Educational Assistance

Cedarville University is approved under Title 38, Chapters 30, 31, 32, 33, 35, 1606 and 1607, U.S. Code for Education of Veterans and Their Dependents. Students under Chapters 30, 32, 35, 1606, and 1607 are required to pay the school for all charges. The Veterans Administration in turn pays them a monthly allowance based upon their training load. Veterans under Chapter 31 are paid a monthly allowance and the Veterans Administration pays the school for tuition, fees, books, and supplies. Cedarville University is a participant in the VA Yellow Ribbon Program. Those students eligible to receive Chapter 33 Post-9/11 benefits may

qualify to receive benefits through the VA Yellow Ribbon program.

Inquiries concerning eligibility should be directed to the contact office of a Veterans Administration Regional Office. Students planning to study under one of the education laws should receive approval prior to enrolling. A Veterans Administration training officer will contact the University in the disabled cases to accomplish this requirement for the student.

Cedarville University students eligible for veterans benefits should contact the veterans benefits counselor in the Office of the Registrar.

### Deferred Payment Plan for Veterans

For Option Deferred Payment Plan for Veterans (under Chapters 30, 31, 32, 33, and 35) receiving the Educational Assistance Allowances, consult the Office of the Registrar.

Payments by veterans receiving their Educational Assistance Allowance checks one month behind will be as follows:

Fall Semester:	1st payment by 10/4
	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.



**Financial Aid**

When completing the FAFSA, the Title IV Code for Cedarville University is **003025**.

**General Information**

Cedarville University offers a variety of financial aid programs to assist students with education-related expenses. Although Cedarville University supports the premise that the primary responsibility for financing a college education rests with the student and family, aid programs are available to supplement personal resources.

Some of the financial aid available at the University is considered to be *need-based aid*. Students are asked to complete and submit the Free Application for Federal Student Aid (FAFSA). It is not necessary to file your federal taxes before completing your FAFSA as estimated data may be used. An analysis of the family's financial data is performed and the results are used to determine the eligibility for need-based assistance. For filing online, obtain a PIN number for **both** the parent and student at [pin.ed.gov](http://pin.ed.gov) and complete the FAFSA at [fafsa.ed.gov](http://fafsa.ed.gov).

In addition to *need-based aid*, the University also offers *merit-based aid* to students who demonstrate recognized achievement or talent. Merit scholarship categories include academic, leadership, athletic, music, forensics, theatre, and debate.

Financial Aid serves as a resource center to assist students and their families in exploring alternative sources of educational funding. The financial aid homepage has direct links to several scholarship databases. Students are encouraged to investigate privately-funded scholarships through the use of the Internet and accessing [cedarville.edu/finaid](http://cedarville.edu/finaid).

Students should advise Financial Aid when they receive additional assistance from sources other than Cedarville University. This assistance will be considered when preparing award packages and may result in the revision of a previously prepared package.

A financial aid award notification will be provided to students after reviewing completed application data and after a student is accepted for admission to Cedarville University. Financial aid is applied for and awarded on a yearly basis. Aid applicants must continue to meet program qualifications in order to retain eligibility.

All questions may be directed to Financial Aid at 937-766-7866 or 1-800-444-2433. Visit Cedarville's financial aid website at [cedarville.edu/finaid](http://cedarville.edu/finaid) and the FAFSA website at [fafsa.gov](http://fafsa.gov).

**Institutional Grants and Scholarships**

All awards are based on full-time enrollment (minimum of 12 degree-seeking credit hours). Students who enroll for fewer than 12 hours will have their awards removed. For complete information, see [cedarville.edu/scholarships](http://cedarville.edu/scholarships).

**Academic Scholarships**

- President's Scholar Award – Students who have a minimum 31 ACT (1360 SAT) and a minimum 3.75 GPA; or the student is identified as a National Merit or National Achievement Finalist/Semi-finalist. The award amount is up to \$12,000.
- Provost's Scholar Award – Students who have a minimum 27 ACT (1210 SAT) and a minimum 3.5 GPA. The award amount is up to \$9,000.
- Dean's Scholar Award – Students who have a minimum 25 ACT (1130 SAT) and a minimum 3.2 GPA. The award amount is up to \$7,000.
- Faculty Scholar Award – Students who have a minimum 22 ACT (1020 SAT) and a minimum 3.0 GPA. The award amount is up to \$4,000.

**Other Grants**

- CU Access Grant – Students who have financial need according to FAFSA. The award amounts are variable.

**New Initiatives**

- One Campus Scholarship – The One Campus Scholarship is awarded to students seeking to enhance the Cedarville community through their personal experience and appreciation for ethnic and cultural diversity. An application is required.
- Presidential Leadership Award – Celebrating Cedarville's strong support for the local church and those who invest their lives in full-time ministry, this scholarship is awarded to selected students whose parent is in full-time ministry and who demonstrate excellent Christian character and leadership abilities. An application is required.

**Transfer Student Aid**

For complete information see [cedarville.edu/transfer](http://cedarville.edu/transfer).

**Department Scholarships**

- Athletic – Contact Athletics or coach
- Debate Team or Speech Team – Contact the Department of Communication
- Music – Contact the Department of Music and Worship
- Pharmacy – Contact the School of Pharmacy
- Theatre – Contact the Department of Art, Design, and Theatre
- Worship – Contact the Department of Music and Worship

**State Grant Programs****Ohio College Opportunity Grant**

Ohio residents who have an expected family contribution of \$2,190 or less and family income less than \$75,000 may be eligible for the Ohio College Opportunity Grant. The FAFSA filing deadline is October 1.

For additional information about all the Ohio student aid programs visit the Ohio Board of Regents website at [regents.ohio.gov/sgs/index.php](http://regents.ohio.gov/sgs/index.php).

**Ohio National Guard Tuition Assistance Program**

This program assists Ohio National Guard members who are full-time students, at least 17 years old, and enlisted for a period of six years. Up to eight semesters of instructional and general fees will be paid for the student. After basic and specialty training, guardsmen meet one weekend a month and two weeks during each summer. In addition to the tuition assistance, the time spent on duty is paid according to rank. Both men and women are accepted into this program, and proof of financial need is not a requirement. For more information, call collect 937-323-6704 or write to: Ohio National Guard, Educational Opportunities, 2825 West Granville Rd., Worthington, OH 43085.

**Ohio War Orphans Scholarship**

This scholarship is awarded to students who are children of deceased or disabled veterans. The student must be enrolled full-time and be making satisfactory academic progress. For more information, contact the Ohio Board of Regents, Student Assistance Office, Ohio War Orphans Scholarship, 3600 State Office Tower, 30 East Broad Street, Columbus, OH 43215.

**State Grant Refund Policy**

Students who qualify for state grant funds must be registered for at least 12 credit hours per semester in order to receive benefits. Students withdrawing or dropping below full-time status during the semester will have their grant payments adjusted according to grant refund policy. Questions pertaining to refund policy should be directed to 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
- Rhode Island – 1-800-736-1100
- Vermont – 1-800-642-3177
- Maryland – 1-800-974-1024
- Delaware – 1-800-292-7935

## Federal Grants

### Federal Pell Grant

A student who is a United States citizen, or who is in the United States for other than a temporary purpose and intends to become a permanent resident, or who is a permanent resident of the Trust Territories of the Pacific Islands or of the Northern Mariana Islands, may be eligible for a federal grant through the School of Education. All students with financial need are encouraged to apply for this grant by using the FAFSA.

Students who meet the Pell eligibility requirements and have an expected family contribution of \$5,198 or less as calculated on the FAFSA are eligible for a Pell Grant.

All awards are based on full-time enrollment (12 hours or more). Students who enroll for fewer than 12 hours will have their awards prorated according to the following schedule:

- 12 hours or more = Full award
- 9–11.99 hours = 3/4 award
- 6–8.99 hours = 1/2 award
- 1–5.99 hours = Less than half-time award

### Federal Supplemental Educational Opportunity Grant (SEOG)

A Federal grant for the School of Education that is awarded to students with exceptional need. Exceptional need is described as being eligible to receive a Pell grant. However, due to limited funding, being Pell-eligible does not guarantee SEOG eligibility.

### Teacher Education Assistance for College and Higher Education Grant (TEACH)

The TEACH Grant provides funds to students who intend to teach in a public or private elementary or secondary school that serves students from low-income families. The TEACH Grant has conditions which must be met, otherwise the grant is converted into a direct unsubsidized Loan. The following website provides the full details for the TEACH Grant: [cedarville.edu/TEACH](http://cedarville.edu/TEACH).

## United States Military Scholarships

### Army Scholarships

Two, three, and three and one-half year scholarships are available for students who enroll in Army ROTC. These scholarships pay all tuition, fees, and textbooks, plus \$250–\$400 per month for 10 school months per year. For additional information, contact the professor of military science at Central State University, Wilberforce, OH 45384 (937-376-6657 or 937-376-6279), or call Nicholas Miller, Assistant Registrar at Cedarville University, at 937-766-7710.

### Army National Guard Scholarships

These scholarships pay up to \$1,000 per school year and are available for those who qualify. Additional information pertaining to these scholarships is available from the professor of military science at Central State University, or from Nicholas Miller, Assistant Registrar at Cedarville University, at 937-766-7710.

## Air Force Scholarships

Air Force ROTC scholarships are available, paying for the cost of tuition, fees, and textbooks, plus \$150 per month for 10 school months, to students who demonstrate academic and leadership potential. Students interested in Air Force ROTC should contact the Department of Aerospace Studies, Wright State University, Dayton, OH 45435 (937-775-2730), or call Nicholas Miller, Assistant Registrar at Cedarville University, at 937-766-7710.

## Donor-Funded Scholarships

Through the generosity of alumni, faculty, staff, and friends, more than 250 donor-funded scholarships are available to Cedarville students. These scholarships are established and funded by individuals who create a scholarship and determine award criteria. Candidates must complete the Free Application for Federal Student Aid (FAFSA) and/or a scholarship application or essay to be considered for these awards. The department of financial aid or committees from academic and University departments typically select the recipients. Review the list of donor-funded scholarships online at [cedarville.edu/donorfunded](http://cedarville.edu/donorfunded).

The personal connection between donors and the students they support plays a significant role in the continued funding of these scholarships. Recipients are asked to express their thanks to their donors in the following ways:

- Send a timely letter of appreciation to your donors.
- Attend the Honors Day luncheon in April (*if applicable*).
- Attend the scholarship reception and Legacy Banquet on Homecoming weekend.

## Federal Direct Stafford Loans

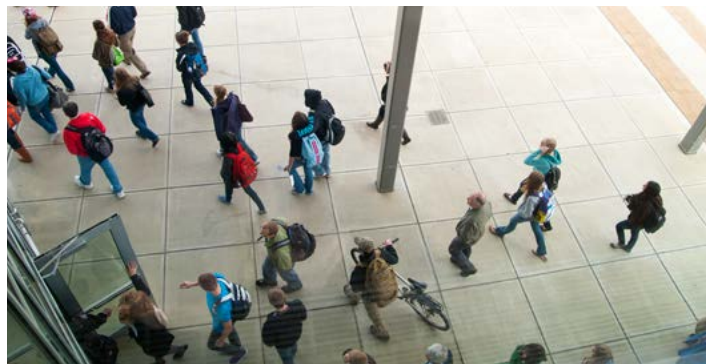
### Federal Subsidized and Unsubsidized Stafford Loans

Federal Stafford Student Loan funds are available to dependent or independent undergraduate students. The federal government will subsidize (pay) the interest on subsidized loans while the student is in school and during a six month grace period following withdrawal or graduation. For detailed information see [cedarville.edu/Loans](http://cedarville.edu/Loans).

In addition, if a student is enrolled for less than a full academic year immediately preceding graduation, the annual loan limit may be prorated based on the number of credits remaining to complete the program of study. Specific questions relating to the federal regulations outlined above may be directed to Financial Aid.

### Federal Parent PLUS Loans

Federal PLUS loan funds are available for creditworthy parents to borrow on behalf of their dependent students. This loan program is not based on financial need and may be used to replace all or part of the expected family contribution. Parents may borrow up to the cost of education less any financial aid the student is receiving. The U.S. School of Education, who serves as the lender, generally deducts origination fees that are determined annually. Repayment begins within 60 days following the final disbursement of the loan.





## Federal Perkins Loans

Federal Perkins Loans are available through the University to students who are citizens of the United States and who demonstrate exceptional financial need. Funds are awarded to Federal Pell Grant recipients first. Other applicants are awarded pending availability of funds.

The Federal Perkins Loan Fund was established to help students pursue their courses of study at their chosen institutions of higher education. Students are eligible if they are: (1) a citizen of the United States, in the United States for other than a temporary purpose and intend to become a permanent resident thereof, a permanent resident of the Trust Territory of the Pacific Islands, or the Northern Mariana Islands; (2) in need of the amount of the loan to pursue a course of study at an eligible institution; (3) capable, in the opinion of the institution, of maintaining good standing in such course of study; and (4) accepted for enrollment as at least a half-time undergraduate student. Continuing students must be in good standing and enrolled as at least a half-time undergraduate.

Repayment begins nine months after graduation or when a student leaves school for other reasons. One may have up to 10 years to pay back the loan, depending upon the aggregate amount borrowed. During the repayment period, the borrower will be assessed 5 percent interest on the unpaid balance of the loan principle.

## Student Employment

### Federal Work Study

This federally funded program is designed to provide work opportunities for University students. Students in this program may qualify for up to 20 hours of work a week during the academic year, providing they show a demonstrated need based on their FAFSA. Actual hiring is handled by the department supervisors who will employ the students. As with campus employment, actual job placement, number of hours worked, and total dollar amount earned cannot be guaranteed by Financial Aid. Community service positions are also available in this program. Visit [cedarville.edu/studentemployment](http://cedarville.edu/studentemployment) for more information.

### Campus Employment

Although unable to guarantee actual job placement, the number of hours worked, or total dollar amount earned, Cedarville University assists needy students by recommending them for part-time employment. Students are employed in various part-time jobs on campus such as maintenance, dining hall, housekeeping, and others.

Part-time student employment is not restricted to upperclassmen and is encouraged at all levels.

### Off-Campus Employment

Because of the University's reputation for attracting quality students, many area employers contact Career Services to employ students on a part-time basis. Though no formal restrictions pertain to this employment, students are encouraged to limit their working hours to approximately 20 hours per week to ensure sufficient time to study.

## Standards of Satisfactory Academic Progress for Recipients of Financial Aid Policy

Financial aid recipients at Cedarville University are required to achieve satisfactory academic progress to be eligible to continue to receive federal financial assistance. The purpose of this policy is to define the requirements for satisfactory academic progress as it pertains to recipients of Title IV federal aid programs.

See [cedarville.edu/UG\\_SAP\\_Policy](http://cedarville.edu/UG_SAP_Policy) 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, room and board, travel, books and supplies, personal and miscellaneous expenses, etc., are considered in your budget.
5. You have the right to know what resources (such as parental contribution, other financial aid, your assets, etc.) were considered in the calculation of your need.
6. You have the right to know how much of your financial need as determined by the institution has been met.
7. You have the right to request an explanation of the various programs in your student aid package.
8. You have the right to know your school's refund policy.

## Student Responsibilities

1. You must complete all application forms accurately and submit them on time to the right place.
2. You must provide correct information. In most instances, misreporting information on financial aid application forms is a violation of law and may be considered a criminal offense that could result in indictment under the U.S. Criminal Code.
3. You must return all additional documentation, verification, corrections, and/or new information requested by either 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

*William Bernhard (2016), Chair*  
*Lorne Scharnberg (2018), Vice Chair*  
*David Gower (2016), Secretary*  
*David Dykema (2018), Treasurer*

### Term of Office Ending June 2016

*William Bernhard, Menomonee Falls, Wisconsin*  
*David Carr, Alexandria, Virginia*  
*David Gower, Elgin, Illinois*  
*Warren Jenkins, Purcellville, Virginia*  
*David Jeremiah, El Cajon, California*  
*Deforia Lane, Cleveland Heights, Ohio*  
*David Lodwick, Portsmouth, Ohio*  
*Michael Loftis, Fayetteville, Georgia*  
*Don Lough, Schroon Lake, New York*  
*Dominic McKinley, Greensboro, North Carolina*  
*Eric Mounts, South Charleston, West Virginia*  
*Paige Patterson, Fort Worth, Texas*  
*Mark Vroegop, Indianapolis, Indiana*

### Term of Office Ending June 2017

*Corey Abney, Union, Kentucky*  
*John Blodgett, Elkhart, Indiana*  
*David Graham, Erlanger, Kentucky*  
*Randy Patten, Noblesville, Indiana*  
*David Warren, Cedarville, Ohio*  
*Hayes Wicker, Naples, Florida*

### Term of Office Ending June 2018

*Daniel Akin, Wake Forest, North Carolina*  
*Timothy Armstrong, Akron, Ohio*  
*David Dykema, Rochester Hills, Michigan*  
*Evan English, Tipp City, Ohio*  
*Daniel Petek, Medina, Ohio*  
*Lorne Scharnberg, Des Moines, Iowa*  
*Jeffery Willetts, Bellefontaine, Ohio*  
*Robert Wynalda, Comstock Park, Michigan*

### Emeriti

*William Bolthouse, Avila Beach, California*  
*Francis Bresson, Menomonee Falls, Wisconsin*  
*Gilbert Brueckner, Menomonee Falls, Wisconsin*  
*James Carraher, Laurel, Maryland*  
*Jim DeVries, Ada, Michigan*  
*Joseph Godwin, Gallipolis, Ohio*  
*Roy Guenin, Winona Lake, Indiana*  
*E. L. Hawkins, Northfield, Ohio*  
*Ruth Kempton, Lititz, Pennsylvania*  
*Irwin Olson, Mesa, Arizona*  
*Bill Smith, Allegan, Michigan*  
*Al Stevens, Moorestown, New Jersey*  
*Robert Sumner, Lynchburg, Virginia*

## Administration

### Cabinet

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

**Loren Reno**, *Vice President for Academics, Chief Academic Officer*. B.A., Cedarville University, 1970; M.S., University of Southern California. At Cedarville since 2012.

**Alan Geist**, *Athletic Director*. B.A., Cedarville University, 1983; M.S.S., United States Sports Academy, 1989; Ph.D., The Ohio State University, 2001. At Cedarville since 2005.

**Christopher Sohn**, *Vice President for Business, Chief Financial Officer*. B.A., Purdue University, 1989; M.B.A., Indiana University, 1996. At Cedarville since 2012.

**Janice Supplee**, *Vice President for Enrollment Management and Marketing*. B.A., Cedarville University, 1986; M.B.A., Wright State University, 2001; Ph.D., University of Nebraska, 2014. At Cedarville since 1995.

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

### Chancellor

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



## Other Faculty

**Pamela Diehl Johnson**, *Dean of Undergraduate Studies; Senior Professor of Kinesiology*. B.S., University of Dayton, 1970; M.A., The Ohio State University, 1971; Ph.D., The Ohio State University, 1974. At Cedarville since 1974.

**Mark McClain**, *Dean of Graduate and Extended Learning Programs; Professor of Chemistry*. B.A., Cedarville University, 1989; Ph.D., University of Michigan, 1994; Postdoctoral Fellow, Sandia National Laboratories, 1994–96; Summer Faculty Research Fellow, Air Force Research Laboratory, 1997, 1999, 2000, 2001, 2002; National Research Council Senior Research Associate, 2003–2004. At Cedarville since 1996.

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

## Library

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

**Kristi Coe**, *Health Sciences Librarian; Assistant Professor of Library Science*. B.S.N., Cedarville University, 1995; M.S., The Ohio State University, 2011. At Cedarville since 2011.

**Julie Deardorff**, *Director of Library Collection Services; Associate Professor of Library Science*. B.S.N., Cedarville University, 1995; M.S., The Ohio State University, 2011. At Cedarville since 2011.

**Joseph Fox**, *Instructional Services Librarian; Assistant Professor of Library Science*. B.A., Western Connecticut State University, 1992; M.L.I.S., San Jose State University, 2010. At Cedarville since 2011.

**Lynne Funtik**, *Information Services Librarian; Assistant Professor of Library Science*. B.A., Wayne State University, 1981; M.L.I.S., Wayne State University, 1984. At Cedarville since 1994.

**Jeffery Gates**, *Information Services Librarian; Assistant Professor of Library Science*. B.S., Baptist Bible College, 1981; M.L.S., Kent State University, 1995; M.A., Faith Baptist Theological Seminary, 2002. At Cedarville since 2007.

**Sharon Kerestes**, *Curriculum Materials Center Librarian; Assistant Professor of Library Science*. B.A., University of Pittsburgh, 1991; M.Ed., Wright State University, 2004. At Cedarville since 2012.

**Gregory Martin**, *Digital Commons Director; Associate Professor of Library Science*. B.M., Wright State University, 1972; M.M., Wright State University, 1979; M.L.I.S., Kent State University, 2005. At Cedarville since 2002.

**Joshua Michael**, *Director of Library Public Services; Assistant Professor of Library Science*. B.A., Cedarville University, 1999; M.Div., Northwest Baptist Seminary, 2004; M.L.I.S., University of Pittsburgh, 2007. At Cedarville since 2013.

## Administrative Staff

### University Registrar

**Fran Campbell**, *University Registrar*. B.A., Cedarville University, 1972; At Cedarville since 1981.

### Office of Student Development

**Mindy May**, *Director of Student Development*. B.A., East Texas Baptist University, 2004; MAMFC, Southwestern Baptist Theological Seminary, 2008; MACE, Southwestern Baptist Theological Seminary, 2008; Ph.D. (candidate), Southwestern Baptist Theological Seminary. At Cedarville since 2014.

**Brad Smith**, *Associate Dean of Students*. B.S., Liberty University, 1984; M.A., Liberty University, 1990. At Cedarville since 2000.

## Correspondence

A complete listing of departments along with contact information can be obtained online at [cedarville.edu/departments](http://cedarville.edu/departments).

Cedarville University  
251 N. Main St.  
Cedarville, OH 45314  
admissions@cedarville.edu  
1-800-CEDARVILLE (233-2784)



## Doctrinal Statement

All trustees, administrators, full-time faculty, and staff support and adhere to the doctrinal statement and lifestyle commitment of Cedarville University.

We believe 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 2014

Enrollment By Class	Men	Women	Totals
Freshmen	429	451	880
Sophomores	325	375	700
Juniors	312	341	653
Seniors	413	432	845
Special/Grad/High School	104	125	229
Totals	1,583	1,724	3,307

Enrollment By Major (double majors are included)	Men	Women	Totals
<b>Majors</b>			
Accounting	45	25	70
Allied Health	22	35	57
American Studies	1	0	1
Applied Communication	14	55	69
Athletic Training	19	22	41
Bible, Comprehensive	8	5	13
Bible, Comprehensive - Online	4	1	5
Bible, Preseminary	8	1	9
Bible, Youth Ministries	25	16	41
Biblical Studies	8	5	13
Biology – Bachelor of Arts	10	12	22
Biology – Bachelor of Science	44	39	83
Broadcasting & Digital Media	63	18	81
Chemistry – Bachelor of Arts	3	2	5
Chemistry – Bachelor of Science	19	13	32
Chemistry Education	2	0	2
Christian Education	4	15	19
Comprehensive Communication	2	0	2
Computer Engineering	46	5	51
Computer Science	71	10	81
Criminal Justice	31	11	42
Early Childhood Education	6	123	129
Electrical Engineering	59	6	65
Electronic Media Technology	1	0	1
English	20	28	48
Environmental Science	7	8	15
Exercise Science – Bachelor of Arts	0	1	1
Exercise Science – Bachelor of Science	11	13	24
Finance	56	11	67
Forensic Science	1	20	21
Geology	14	7	21
Geosciences	3	1	4
Global Business	9	11	20
Global Economics & International Business	1	1	2
Graphic Design	23	40	63
History	12	7	19
History/Political Science	3	6	9
Industrial and Innovative Design	43	30	73
Information Systems/Info Tech Management	25	1	26
Integrated Language Arts Education	3	13	16
Integrated Life Science Education	0	3	3
Integrated Math Education	5	10	15
Integrated Science Comprehensive Education	1	1	2
Integrated Social Studies Education	9	7	16
Intercultural Communication	0	1	1
International Studies	7	7	14
Intercultural Studies – Missiology	7	15	22
International Studies/Missiology	3	3	9
International Studies – Social Science	9	7	16
Journalism	4	15	19
Liberal Arts	4	7	11
Linguistics	4	19	23
Management	69	30	99
Marketing	25	27	52
Mathematics – Bachelor of Arts	9	6	15
Mathematics – Bachelor of Science	10	6	16
Mechanical Engineering	220	26	246
Middle Childhood Education	12	36	48
Molecular and Cellular Biology	19	23	42
Music	19	17	36
Music, Church Ministries	1	0	1
Music, Composition	4	0	4
Music, Keyboard Pedagogy	1	11	12
Music, Multi-Age Education	9	16	25
Music, Performance	3	10	13
Nursing	47	325	372
Pastoral Studies	2	0	2
Pharmacy – General	1	0	1
Pharmaceutical Sciences	44	82	126
Philosophy	1	0	1
Physical Education, Multi-Age	7	6	13
Physics – Bachelor of Arts	2	0	2
Physics – Bachelor of Science	12	1	13
Physics Education	2	1	3

Political Science	10	4	14
Prelaw	4	8	12
Pre-Engineering	16	2	18
Pre-Nursing	5	27	32
Psychology	32	81	113
Public Administration	13	1	14
RN to BSN - Degree Completion	0	1	1
Social Work	3	79	82
Sociology	1	4	5
Spanish	5	19	24
Spanish Education, Multi-Age	1	5	6
Special Education – Intervention Specialist	2	34	36
Sport and Exercise Studies	3	1	4
Sport Business Management	26	8	34
Studio Art	0	13	13
Professional Writing and Information Design	1	3	4
Technical & Professional Communication	6	10	16
Theatre	7	21	28
Undecided – Degree Seeking	26	28	54
Undecided – Nondegree	101	142	225
Worship	45	15	60

Student Resident Status	Men	Women	Totals
Campus housing	1,225	1,351	2,576
Commuters	224	233	457

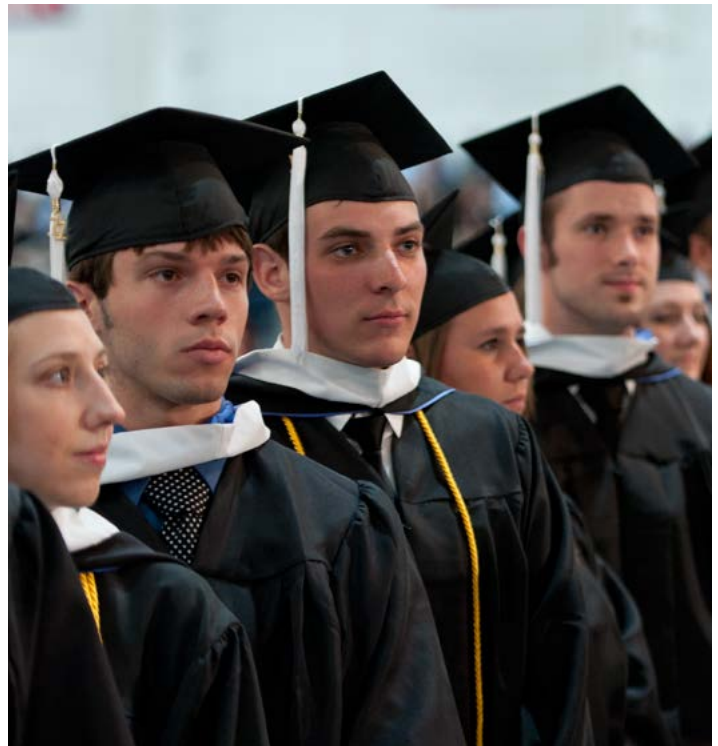
Faculty/Enrollment Comparison (full-time equivalents)	Student	Faculty	Ratio
2005–06	2,947	211	14:1
2006–07	3,064	211	15:1
2007–08	3,006	228	13:1
2008–09	2,996	202	15:1
2009–10	2,841	195	15:1
2010–11	2,938	202	15:1
2011–12	3,014	215	14:1
2012–13	3,053	225	14:1
2013–14	3,075	240	13:1
2014–15	3,082	251	12:1



# Appendix Statistical Information – Fall Semester 2014

<b>Enrollment By State</b>	<i>Men</i>	<i>Women</i>	<i>Totals</i>
Alabama	2	2	4
Alaska	1	7	8
Arizona	0	5	5
California	15	24	39
Colorado	12	26	38
Connecticut	17	10	27
Delaware	8	1	9
Florida	27	18	45
Georgia	10	7	17
Hawaii	2	2	4
Idaho	1	4	5
Illinois	62	72	134
Indiana	82	83	165
Iowa	11	23	34
Kansas	4	8	12
Kentucky	28	29	57
Louisiana	0	1	1
Maine	24	21	45
Maryland	28	33	61
Massachusetts	28	17	45
Michigan	111	110	221
Minnesota	9	14	23
Mississippi	1	1	2
Missouri	15	8	23
Montana	4	1	5
Nebraska	1	2	3
Nevada	1	2	3
New Hampshire	20	15	35
New Jersey	29	33	62
New Mexico	1	6	7
New York	73	70	143
North Carolina	22	23	45
North Dakota	0	1	1
Ohio	617	712	1,329
Oklahoma	1	1	2
Oregon	6	3	9
Pennsylvania	123	149	272
Rhode Island	6	7	13
South Carolina	7	4	11
South Dakota	1	3	4
Tennessee	12	7	19
Texas	10	13	23
Utah	3	2	5
Vermont	7	5	12
Virginia	52	50	102
Washington	11	16	27
West Virginia	12	14	26
Wisconsin	33	28	61
Wyoming	3	2	5
Guam	1	0	1
<b>Totals</b>	<b>1,583</b>	<b>1,724</b>	<b>3,307</b>

<b>Enrollment By Age</b>	<i>Men</i>	<i>Women</i>	<i>Totals</i>
<i>Years</i>			
under 18	98	133	231
18	321	380	701
19	348	397	745
20	346	376	722
21	304	318	622
22	103	68	171
23-24	37	25	62
25-29	14	7	21
30-34	3	4	7
35-39	3	2	5
40-49	1	8	9
50+	5	6	11
<b>Totals</b>	<b>1,583</b>	<b>1,724</b>	<b>3,307</b>





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# ACADEMIC QUICK REFERENCE GUIDE

## Fall Semester 2015

### August 2015

3–6	New Faculty Orientation
3–5	Academic Leadership Group Meeting
6	Faculty/Staff Picnic
7	Faculty/ Staff Sessions and Service Awards Program
10	Academic Division Meeting
14-16	Getting Started Weekend ( <i>meal contract starts at 5 p.m. on Friday</i> )
17–20	Fall Bible Conference
19	Instruction Begins at 8 a.m.
24	Convocation Chapel at 10 a.m.

### September 2015

7	Labor Day ( <i>no classes</i> )
30	Trustee Meetings

### October 2015

1	Trustee Meetings
2-3	Homecoming
15–18	Fall Break ( <i>no classes</i> )
19	Instruction Resumes at 8 a.m.
19	Advising/Early Registration for Spring: Student-Athletes
20–21	Advising/Early Registration for Spring: Seniors
22–23	Advising/Early Registration for Spring: Juniors
22	Majors Assemblies
27–30	Advising/Early Registration for Spring: Sophomores

### November 2015

10–12	Advising/Early Registration for Spring: Freshmen
23-12/7	Student Evaluation of Faculty for Fall Semester 2015
25–30	Thanksgiving Break Begins at 1 p.m. ( <i>residence halls open; dining hall closed</i> )

### December 2015

1	Instruction Resumes at 8 a.m.
8–11	Final Exams*
16	Grades due at 3 p.m.

## Spring Semester 2016

### January 2016

11	New Student Orientation and Preparation ( <i>meal contract starts at 5 p.m.</i> )
12	Instruction Begins at 8 a.m.
12–14	Missions Conference
28-29	Trustee Meetings

### February 2016

4	Majors Assemblies
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### March 2016

5–13	Spring Break ( <i>residence halls open; dining hall closed</i> )
14	Instruction Resumes at 8 a.m.
18	Advising/Early Registration for Fall: Student-Athletes
2–22	Advising/Early Registration for Fall: Seniors
23–24	Advising/Early Registration for Fall: Juniors
25–28	Easter Break
29	Instruction Resumes at 8 a.m.
29–30	Advising/Early Registration for Fall: Sophomores
31–4/1	Advising/Early Registration for Fall: Freshmen

### April 2016

11	Academic Honors Day
20–5/2	Student Evaluation of Faculty for Spring Semester 2016

### May 2016

3–6	Final Exams*
5–6	Trustee Meetings
7	120th Annual Commencement ( <i>residence halls close at 5 p.m. for undergraduates, 8 p.m. for walking seniors</i> )
11	Grades due at 3 p.m.

\*Final exam schedules are published at the beginning of each semester. Please be sure that your travel arrangements do not conflict with your final exams.

## Summer Sessions 2015

Session I: May 10–May 27, 2016

Session II: June 13–June 24, 2016

Session III: May 31–August 19, 2015 (*online only*)

Session IV: May 9–August 19, 2015 (*online only*)

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