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Fall 1995

1995-1996 Academic Catalog

Cedarville College

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CEDARVILLE



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 Admissions: 800-CEDARVILLE

ACADEMIC CALENDAR 1995-1996

FALL QUARTER

September 1995	
15-16	New Students Arrive Honors Orientation Parents' Orientation
18-19	Upperclassmen Final Registration
18-22	College Week, New Student Orientation
18-22	Fall Bible Conference
20	Freshmen Registration Full payment or 1/3 of school bill due
21	Instruction begins; Convocation
October 1995	
14	Homecoming Royalty Banquet
19	Second 1/3 payment due
20-22	Homecoming Weekend
24	Career Day
November 1995	
1	Day of Prayer, classes resume at 1:00 p.m.
6-10	Conference and Early Registration for Winter Quarter - juniors and seniors
10	Grandparents Day
13-17	Conference and Early Registration for Winter Quarter - freshmen and sophomores
21	Third 1/3 payment due
22	Thanksgiving Vacation begins at 1 p.m.
28	Instruction begins at 8 a.m.
December 1995	
6-8	Final Exams

WINTER QUARTER

January 1996	
7	New Student Orientation and Registration
8	Instruction resumes
9	Full payment or 1/3 of school bill due
17-19	Winter Enrichment Conference
26	Charter Day
February 1996	
2	Second 1/3 payment due
2-3	Li'l Sibs Weekend
12-16	Conference and Early Registration for Spring Quarter - juniors and seniors
19-23	Conference and Early Registration for Spring Quarter - freshmen and sophomores
19	Christian School Recruitment Conference
29	Third 1/3 payment due
March 1996	
14-15	Final Exams
18-22	Spring Break

SPRING QUARTER

March 1996	
25	New Student Orientation and Registration
25-29	Spring Missionary Conference
26	Instruction begins
27	Full payment or 1/3 of payment due
April 1996	
5	Easter Vacation begins at 1 p.m.
9	Instruction resumes at 8 a.m.
25	Second 1/3 payment due
May 1996	
2	Day of Prayer - classes resume at 1 p.m.
3	Honors Day Chapel
3-5	Parents' Weekend
6-10	Conference and Early Registration for Fall Quarter and Summer School - juniors and seniors
13-17	Conference and Early Registration Fall Quarter and Summer School - freshmen and sophomores
23	Third 1/3 payment due
27	Memorial Day (classes meet; offices closed)
June 1996	
June 6-7	Final Exams
8	100th Annual Commencement - 10 a.m.

SUMMER SESSIONS

June 1996	
17	Student Orientation and Registration for Session I
18	Instruction begins
July 1996	
4	Holiday - no classes
19	First Session ends
August 1996	
5	Student Orientation and Registration for Session II
6	Instruction begins
September 1996	
2	Holiday - no classes
6	Second Session ends



Diverse in background but united in purpose, students come to Cedarville from all over the nation. The team pictured here includes residents of Florida, New York, Indiana, Maine, Michigan, New Jersey, and Ohio. They spent five weeks this past summer ministering to the people of England through music and puppets.

Introduction



A Word From Our President, Dr. Paul Dixon

Thank you for your interest in Cedarville College!

This catalog is designed to answer many of the questions you may have about us. Please read it carefully. I also invite you to visit our campus to see for yourself why Cedarville College is such a popular college among committed Christian young people today. We would love to have you join us and prepare for your life's career and ministry in this dynamic learning environment.

Christians have countless opportunities to serve Christ through business, medicine, law, engineering, education, the pastorate, missions, public office, counseling, and many other professions. At Cedarville, we strive to challenge you to be both a committed Christian and a competent professional so that you can make a difference in this world for Jesus Christ.

I believe that you will be particularly impressed with the people who make up Cedarville College. Our faculty, staff, and administrators are here to teach you and to serve you in many different roles, and also to encourage you to grow in Christ. They will demonstrate a sincere concern for your growth--intellectually, physically, emotionally, socially, and spiritually. You will make lifelong friends during the time you are here, and you will find we really are family.

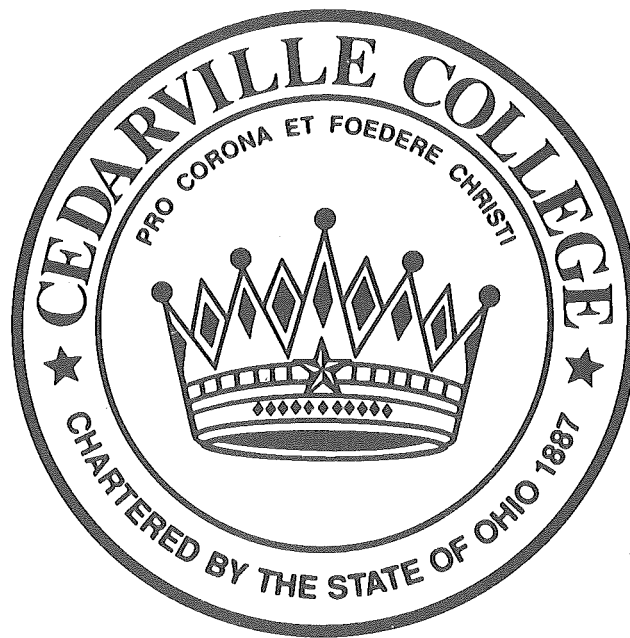
Cedarville's education combines personal attention from godly faculty with a high-tech environment that commands national attention. You will be able to log on to CedarNet, our campus-wide computer network, from most dormitory rooms or from several labs. CedarNet will connect you to professors, other students, the Centennial Library, and a multitude of software programs to enhance your Cedarville education. CedarNet is linked with Internet which gives you access to computers in educational institutions and businesses around the world.

As the Lord enables, we will continue to build or renovate buildings which will add to your learning experience. Over 95% of our academic space has been constructed or renovated within the past 10 years. McChesney Hall and McKinney Hall, two new dormitories, together with the Miter Conference Center are brand new as students arrive for the Fall Quarter, 1995. Also under construction is The Ministry Center, a 120,000 square foot facility that will house a new 3,400 seat chapel (expandable to 4,000 seats), the division of Christian ministries, and the department of music.

The 100,000 square-foot Engineering/Nursing/Science Center has been in use since the 1992-93 school year. Most of our students have some classes in this state-of-the-art facility. Other buildings completed in recent years include the Centennial Library, the George S. Milner Business Administration Building, the Alford Auditorium Annex for music, and residence halls--Brock Hall and two additional wings on Willetts Hall. Every year we remodel or redecorate other facilities.

For 106 years Cedarville College has offered Christian higher education consistent with biblical truth. We stand ready to help prepare you to serve our unchanging Christ in a rapidly changing world--in this decade and on into the 21st century.

1995-96 Catalog



A Baptist College of Arts, Sciences, and Professional Programs
Established in 1887

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

Printer: *Central Printing*, Springfield, Ohio

4 College Profile



"Old Main," now named Founders' Hall, as it appeared after it was completed in 1895.

History

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

The turbulence of the first fifty years of the 20th century led to hard times for the College. Following one final attempt to become strong after the end of WW II, the trustees realized that the enrollment could not support expenses. The College would have to find another church group to assume its operation, or close its doors.

At that time the trustees of the Baptist Bible Institute of Cleveland, Ohio, were seeking a campus on which to expand. Hearing of Cedarville College, they visited the campus and were convinced that Cedarville was the site that God had for their school. Upon mutual agreement by both trustee boards, ownership of the College was transferred on April 4, 1953. Cedarville College became a Baptist college of arts and sciences. James T. Jeremiah, the pastor who first suggested the Baptist Bible Institute-Cedarville College connection, was called to be the president.

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

Paul Dixon was then called to lead Cedarville College. Through his leadership, the College has continued to flourish in every area. The student body has grown to over 2,400 students. Several new facilities, including six residence halls, the Athletic Center, Centennial Library, and the Miter Conference Center have been constructed in the last decade. A new academic building for engineering, nursing, and science was completed in 1992. The Ministry Center, a 3,400 seat chapel, and facilities for both the music department and Christian ministries division is scheduled for completion in 1996.

Many new academic and co-curricular programs have also been added. In 1987, Cedarville College celebrated its centennial, commemorating one hundred years in Christian higher education. The future looks bright for Cedarville College as it seeks God's continued blessing and enters its second century of service.

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6 College Profile

College Profile

Cedarville College is a Baptist college of arts and sciences of over 2,400 students. Since its founding, Cedarville has coupled a balanced liberal arts program with a fundamentalist, theological position in regard to doctrine and patterns of conduct. All classes are taught by dedicated Christian professors who integrate the knowledge of their respective fields with biblical perspectives.

In keeping with the liberal arts concept, the curriculum centers on a basic program of general studies including Biblical education, communications, humanities, physical education, science and mathematics, and the social sciences. Following this program, students choose a major field of concentrated study related to their abilities, interests, and career goals. Upon completion, students receive the baccalaureate degree. The College also offers an associate of arts degree in office technology.

Purpose

Since its establishment, the purpose of the College has remained the same: to offer an education consistent with biblical truth.

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

1. To undergird the student in the fundamentals of the Christian faith, and to stimulate him to evaluate knowledge in the light of scriptural truth.
2. To encourage growth in Christian character in each student, and to help the student accept his responsibility in faithful Christian service.
3. To increase the student's awareness of the world of ideas and events which are influencing our contemporary culture, and to prepare the student to knowledgeably participate in our society.
4. To enable the student to develop sound critical and analytical reasoning.
5. To provide sufficient opportunities for students to practice the skills of communication.
6. To offer opportunities for academic specialization and preparation for graduate study, and to assist the student in selecting and preparing for a vocation.
7. To foster the student's appreciation of, and participation in, wholesome avocational and cultural activities.

Recognition, Certification, and Accreditation

Cedarville College is an institution of higher learning approved by the General Association of Regular Baptist Churches.

The College is a four-year degree granting institution chartered by the State of Ohio and certified by the Ohio Board of Regents.

The College is approved by the State Department of Education for the education and certification of both elementary and secondary teachers. The bachelor of science in nursing program is accredited by the National League for Nursing. The bachelor of science in engineering programs are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (EAC/ABET).

The College holds membership in the North Central Association of Colleges and Schools. This recognition signifies that the College is accredited.

The College also holds membership in the Coalition of Christian Colleges and Universities, the Ohio College Association, the Association of Independent Colleges and Universities of Ohio, the National Association of Independent Colleges and Universities, the Association of Christian Schools International, and the Ohio Foundation of Independent Colleges.

Information concerning accrediting agencies and respective accreditation requirements is available in the Office of the Academic Vice President.



Massie's Creek gorge, located just minutes from the campus, offers a peaceful retreat from the stresses of college life.

The Setting

Cedarville College is located on a 100-acre campus at the north edge of the village of Cedarville, Ohio, a quiet town with a population of approximately 3,000. Founded in 1816 at the junction of two state routes, the village and its surrounding area have long maintained a reputation for providing a wholesome environment for learning.

This pleasant setting continues today. "Downtown Cedarville" features the historic Cedarville Opera House, two banks, several haircutting establishments, a few restaurants, and the ever-helpful Cedarville Hardware. Massies Creek contributes a touch of rustic beauty to the area, bisecting the village with its deep limestone gorge and cascading over picturesque falls just west of the village limits. Massies Creek Gorge and the adjacent Williamson Mound Park offer hours of recreation, adventure, and reflection within a mile of the College.

Rolling hills and prospering farms border the village and College. Quiet, tree-lined lanes beckon runners, cyclists or students out for a "cruise." Just four miles north of campus lies Clifton, the site of the quaint Clifton Mill, a water-powered grist mill, and the renown Clifton Gorge, whose 75-foot cliffs attract rock climbers and hikers from all over the midwest. This beautiful area, which extends westward to the John Bryan State Park, has been recognized as one of the most scenic in the Midwest and serves as a popular spot for students to relax.

Though located in a rural community, Cedarville College is conveniently situated within easy access to shopping areas in the small cities of Xenia and Springfield. The College 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, three of the fastest-growing metropolitan areas in the nation.

Founders' Hall

Constructed in 1895 as the first building of the College, "Old Main" has served as the focal point of campus activity for over one-hundred years. This historic facility was renamed "Founders' Hall" on the Centennial Charter Day, January 26, 1987, to recognize the five men who pooled their vision, energy, and wealth to give birth to Cedarville College.

Today this stately structure serves as Cedarville's administrative and academic headquarters with offices for the president, academic vice president, vice president for development, and student accounts on the first floor. The second floor contains one general classroom and offices for the vice president for business. Faculty offices are located on the third floor. The lower level of this building houses the copy center, personnel, and annual giving offices.

Bookstore

Offering one of the largest selections of Christian books and materials in the Midwest, the Cedarville College Bookstore makes its home right in the center of campus. With everything from sweatshirts to textbooks to greeting cards, the bookstore endeavors to provide students with the materials necessary to enjoy a successful college experience.

Patterson Clinic

Conveniently located in the center of campus, Patterson Clinic provides total health care including education to assist students to avoid preventable illnesses and enjoy a fulfilling, healthy experience at the College. Consulting physicians and full- and part-time nurses provide health care.

Communications Building

The Communications Building houses the post office and CDR Radio Network, the College's radio ministry. Students receive federal as well as campus mail in their assigned post office boxes.

CDR Radio Network serves a portion of Ohio, Indiana and Kentucky with Christ-centered, 24-hour programming. The five station network includes WCDR (90.3 FM) broadcasting in the Dayton/Springfield area, WOHC (90.1 FM) in Chillicothe, and WOHP (88.3 FM) in Portsmouth, Ohio. In addition, CDR serves Columbus and Central Ohio at 88.1 FM and Richmond, Indiana at 95.3 FM through the use of FM translators. A listener-supported ministry, the network offers a quality mix of praise and inspirational Christian music, Bible-centered programming and up-to-date news and information. Students and listeners participate in a number of service projects coordinated by CDR throughout the year, including "Project Angeltree", a program which benefits children of prison inmates in Southern and Central Ohio.

Alford Auditorium

Located across from the main part of campus, historic Alford Auditorium has served the College in several capacities throughout its 65-year history. Originally constructed as a church auditorium, the structure later functioned as a gymnasium. When newer athletic facilities were built, Alford served as the College's chapel. Since 1976, the auditorium has provided facilities for drama productions and lectures. An addition completed in 1991 houses a music rehearsal hall, a music computer laboratory, and music faculty offices.

8 The Campus

Centennial Library

The 66,000 square foot, two-floor library, served as the cornerstone of the College's 1987 Centennial celebration. This structure brings together the latest technologies for higher learning. Located on a prominent site within the academic cluster of buildings, this facility provides general study and specialized seating for over 800 students, and the necessary information storage and retrieval support functions for continued quality academic program development. Designed to house a collection of up to a quarter of a million volumes, the library also contains a faculty development center, the archives of the College, a variety of seminar and group study rooms, and the Media Resource Center which includes a media production center, public access computers, a video studio, a rare, SONY language/learning laboratory, media-supported classrooms, library computer classroom, and the Curriculum Materials Center.

The library presently houses over 150,000 volumes and provides over 1,000 current periodical subscriptions. The library's integrated on-line computer system includes the library catalog with computerized access to all library holdings, circulation control for all materials, acquisitions (purchase of materials) and budget management, and periodical holdings and management. The system is accessed through 16 system terminals in the building and through CedarNet, the campus computer network. In addition, a variety of computerized library resources, including indexing services, databases, and reference works, are available on the campus network. Through an on-line computer network, OCLC, Inc., the library has access to over thirty-two million additional books and other library materials in over 19,000 libraries in all fifty states, Canada, and several foreign countries.

College Center

Providing dining facilities, classrooms, offices, and the computer center, the College Center serves as a focus of student activity on campus.

Dining facilities include the cafeteria, a spacious area which serves 21 "all-you-can-eat" meals a week to the more than 2,000 students who live on campus, and the President's Dining Room, a small, formal dining room. This unique room, reputed to be one of the finest of its kind in the state and used extensively by the president, may also be reserved by students who wish to enjoy a formal dining occasion.

Offices for the departments of academic records, admissions, and financial aid are located on the first floor of this building.

Chapel

Completed in 1976, this 2,000-seat auditorium bears the name of James T. Jeremiah, the president who saw the College grow from 100 to 1,200 students during his twenty-five years of service between 1953 and 1978. Its decor, blue and gold, mirrors the colors of the College and its cornerstone, with Revelation 1:9 inscribed, bears its motto: "For the Word of God and the Testimony of Jesus Christ." A rare, three-console Allen digital organ, the only one of its kind in Southwestern Ohio, fills the chapel with music. A 10-foot Baldwin concert grand piano complements the organ.

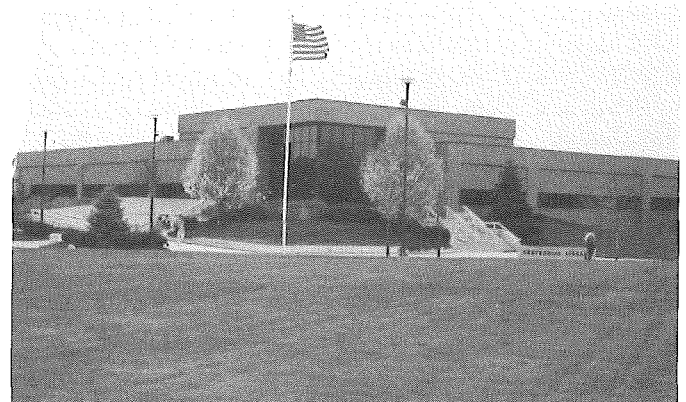
By its location at the center of the campus, the James T. Jeremiah Chapel demonstrates the centrality of the daily chapel program in the life of the Cedarville College family. Coordinated by the president of the College, chapel services feature outstanding Christian speakers from all over the world and many walks of life. The president himself speaks most Monday mornings.

Williams Hall

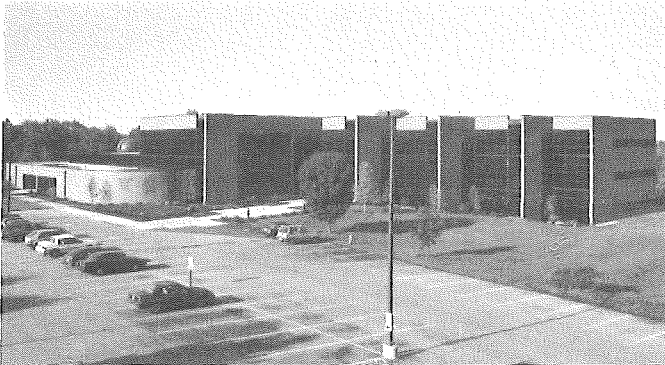
Providing classrooms and offices, Williams Hall serves as the home of the academic departments of education and psychology as well as the location of the alumni, planned giving, public relations, and student services offices. The building was named for the late Arthur Williams, popular faculty member and chairman of the Bible department.

Collins Hall

Collins Hall houses the counseling center and the academic departments of communication arts and social sciences and history. Renovated in 1987, this building bears the name of the Andrew Collins family, long-time supporters of the College.



Centennial Library



Engineering, Nursing, Science Center

Athletic Center

Constructed in 1981, the spacious Athletic Center is one of the largest athletic facilities found at any independent college in the Midwest. Providing year-round recreation and training, this sports center features five full-length basketball courts, a one-tenth mile indoor track, three volleyball courts, two tennis courts, badminton courts, a batting cage, three racquetball courts, a weight room, and training room. It seats nearly 3,000 fans for basketball games and is large enough for indoor track meets complete with running, long jump, high jump, pole vault, and shot put events.

Heritage Square and the Student Center are located on the second floor of the Athletic Center. Heritage Square, decorated with memorabilia from the early days of the College, reminds students of Cedarville's rich heritage. The Student Center provides a comfortable "living room" atmosphere in which students may relax, socialize, and be entertained. Comfortable seating, a large-screen television, pool tables, table-tennis tables, group meeting areas, and the Gavelyte provide resources that can enhance any casual time. The second floor of the Athletic Center also serves as the home of the Campus Activities Office. This department oversees student organizations and coordinates the concerts and activities on campus. Given the location and Christian orientation of the College, campus-based activities play an important role in college life at Cedarville and lead to some of the greatest memories of the collegiate experience.

Milner Hall

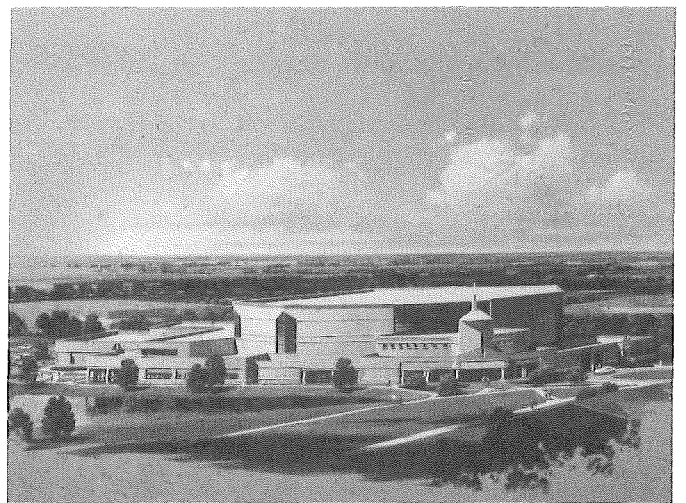
Opened in the fall of 1987 and featuring the latest in instructional technology, the George Milner Business Administration Building contains general classrooms, the career services office, a microcomputer center, plus offices and classrooms for the department of business administration. Designed like a corporate center and fully computer-supported, this facility is designed to prepare Cedarville students for competent service in the world of business.

Engineering, Nursing, Science Center

This facility demonstrates the College's firm commitment to providing top-quality Christian education in the sciences and features one of the largest reflecting telescopes in the state of Ohio. In addition to containing offices for science department faculty, this facility contains several general classrooms. This 95,000 square foot, 3-story academic center contains 16 classrooms, including a 200-seat auditorium; 10 independent study laboratories; 5 conference rooms; 36 discipline-specific laboratories; 50 offices; and several lounges. The building also contains a 34-station microcomputer laboratory and features video and data connectivity in all offices, classrooms, and laboratories. Special features include a 25-station computer-aided design laboratory, an audio-visual learning laboratory, a simulated hospital ward, and an engine test cell.

Fine Arts Building

Located two blocks south of the main campus, this stately structure donated by Andrew Carnegie serves several academic departments. Faculty offices comprise the first floor. Wenger soundproof modules fill the lower level, providing practicing facilities for music students.



The 120,000 square foot Ministry Center with Music Department facilities, the Christian Ministries Division, and a 3,400 seat chapel is scheduled to be completed by the fall of 1996.

10 Computer Information Network

Computer Information Network

The College recognizes that students must live and work in a society where computers and computer networks are an essential part of everyday life. To equip students to function effectively in this environment, Cedarville has developed and launched CedarNet, the campus-wide computer information network. Utilizing hardware and initial technical support provided by IBM, this network promises to revolutionize the way the students receive, send, manipulate, and process information.

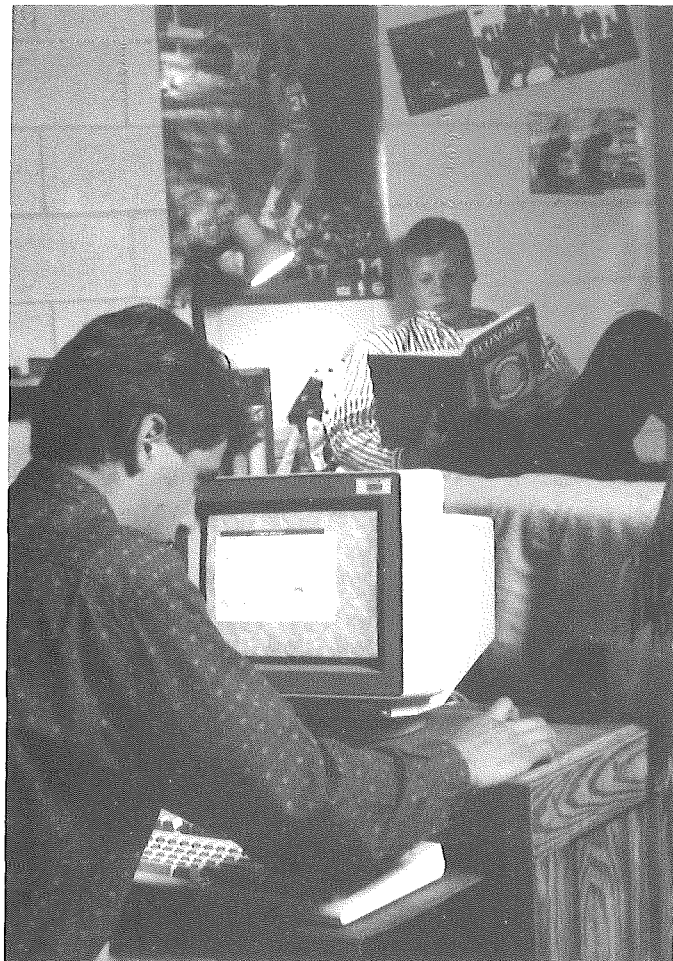
Benefits

Students using the network can:

- take notes and write papers more efficiently
- make written assignments look better and communicate more effectively
- communicate electronically with their professors, friends, and classmates, or others around the world
- manage, display, and analyze data by using data base, statistical, and spreadsheet software
- complete special assignments which make specific use of network features
- search library holdings for personal and class research projects, papers, or presentations, even when the library is closed
- enhance personal Bible study
- create illustrations for class, personal, or ministry presentations
- master course content or skills through individual, self-paced study
- learn skills which will help them do better as a student and obtain a better job upon graduation

Equipment

The network features 486SX, 486DX or Pentium microcomputers with a 3.5 "floppy" disk drive, 4 MB or more RAM, a hard disk drive, SVGA color monitor, and MIDI capable sound board. In addition, each networked residence hall room contains an inkjet printer or a 24-pin dot matrix near letter quality printer. All laboratories offer laser printers for high quality, final drafts. The library computer laboratory features a flat-bed scanner for scanning color images and a color printer for printing color documents, overheads, and 35mm slides.



CedarNet personal computers, located in nearly every residence hall room, enable students to use network resources 24 hours a day.

Access

Access is the key to any effective information system. The network is designed to provide both the hardware and software that members of the college family need to obtain and use information.

Nearly all students living in a residence hall enjoy the benefits of 24-hour access to the network. The residence halls connected to the network include: Brock, Carr, Faith, Lawlor, Maddox, Marshall, McChesney, McKinney, Palmer, Printy, Rogers, and Willetts Halls.

To enable all students to take advantage of the network, the public laboratories, with a total of 100 stations, are conveniently open to the students. Off-campus students utilize modem access.

Software

CedarNet features 175 software packages including:

- COBOL
- C++ for Windows
- FORTRAN
- FoxPro, dBASE IV, Paradox (data bases)
- Gopher (Internet)
- Harvard Graphics
- LOGOS (Bible research)
- LOTUS 1-2-3
- Microsoft Project
- Minitab
- Mosaic (Internet Browser)
- News (Reuters/AP)
- On-line Bible
- On-line library catalog and periodical access
- PaintShop Pro
- Pagemaker (desktop publishing)
- Pascal
- Quattro Pro for Windows (spreadsheets)
- SPSS (statistics)
- Toolbook, ObjectVision 2.0 (visual programming and hypertext)
- WordPerfect GroupWise (e-mail)
- WordPerfect Presentations
- WordPerfect for Windows (word processing)

New software is added regularly. Faculty also specify or produce their own software for specific courses or projects.



Library staff help students utilize the scanners, graphics software, and color printers located in the Media Resource Center.

Training

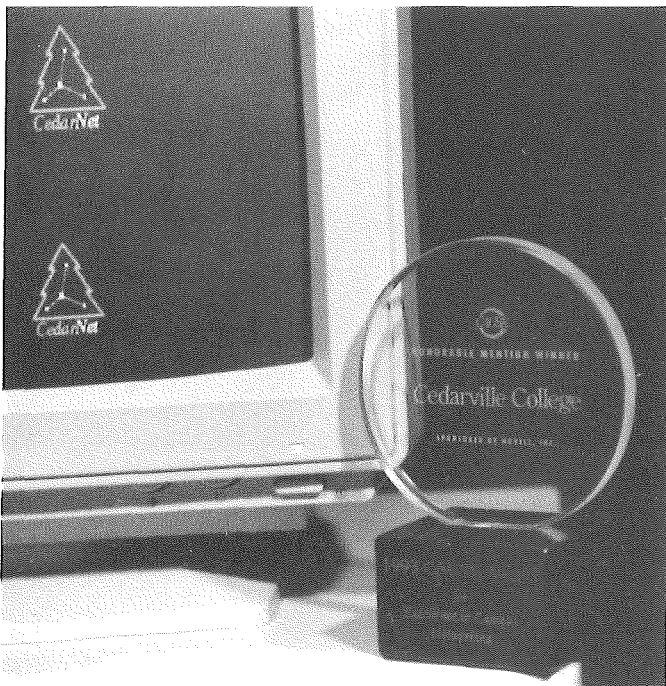
The network has been designed so that most users will be able to learn the network on their own via tutorials and help-screens which explain how to use the programs. Additionally, computer assistants in laboratories are available whenever the labs are open. Faculty using specialized software typically orient students in their respective classes. Students find that utilizing the network is the best way to learn how to use it.

Supplies and Maintenance

The college bookstore sells the paper and floppy disks students need to use the network. For security, students are encouraged to store their work on their own floppy disks.

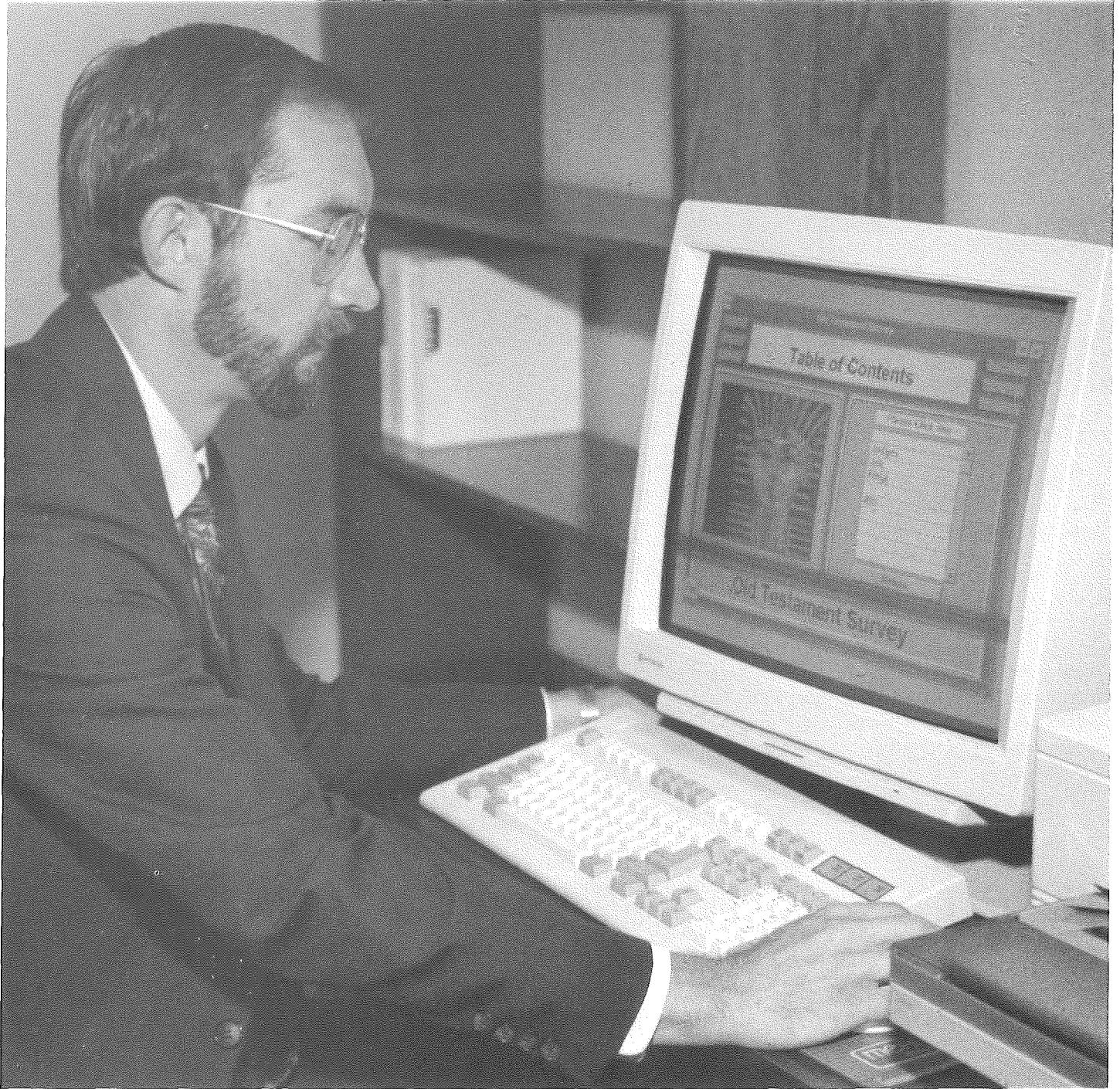
Technicians from the Computer Services Department provide the technical back-up to keep the system operating. Students who experience problems with the operation of their equipment should contact either the laboratory assistant on duty or send e-mail to **PROBLEM**.

Some measure of wear and tear is expected from the use of the equipment. Such maintenance is covered through the network technology fees. Excessive wear or damage, however, is not covered. Students who intentionally damage any network equipment will be asked to cover the costs associated with repairing it.



In 1993, Cedarville was recognized with Brown University, Gettysburg College, M.I.T., Penn State, Stevens Institute of Technology, and Maricopa Community College by CAUSE as having one of the top campus-wide computer networks in the United States.

12 Computer Information Network



CedarNet features programs designed to help students taking specific courses. Bible professor Chris Miller is pictured here demonstrating the Old Testament Survey program found on the network.

Computer Information Network 13

Applications

As a result of the variety of features and capabilities offered by the network, students from all majors can benefit greatly. A number of specific applications exist. These include:

Biblical Education

- Church management software
- Concordance programs with multiple translations
- Hebrew and Greek word processing

Business

- Textbook-specific software
- Financial statements
- Management simulations
- Statistical analysis
- Spreadsheets

Communication Arts

- Groupware cooperative projects
- Interactive video generation

Education

- Gradebook management
- Lesson preparation
- Database management
- Visual aids

Engineering

- CAD software
- TKsolver
- Maple (mathematics)
- Statistical analysis
- Charts and graphs

Health and Physical Education

- Dietary analysis software
- Sports management
- Charts and graphs

Interdisciplinary studies

- Access to international demographical data
- Spreadsheets
- Statistical analysis

Language and Literature

- Writing skill builder
- Reading skill builder
- Grammar checkers and style analyzers
- Language tutorials
- Publication design

Music

- Art slides for humanities class
- MIDI instrument control
- Music theory tutorials

Nursing

- Vocabulary tutorials
- Video training programs

Psychology

- Personality inventories
- Statistical research

Science and Mathematics

- Graphical demonstration of mathematical properties
- Laboratory simulations
- Biology laboratory review
- Statistical analysis
- Charts and graphs

Social Sciences and History

- Access to demographic data
- Mapping software
- Statistical analysis
- Access to historical documents

College-wide

- Campus Activities
- Career Services
- Posting of:
 - Internship opportunities
 - Full and part-time job opportunities
 - Upcoming recruiting days and recruiters
 - Graduate school deadlines

General:

- College-wide announcements
- Faculty-student communication, on-campus
- Student-student communication, on-campus
- Closed classes for registration
- Christian ministry opportunities
- Transcripts
- Financial records

Library:

- On-line public access to library holdings
- Periodical search

World-wide

Internet:

- Electronic mail and access to over 10,000 institutions, libraries, and databases around the world

Cedarville College Internet address for staff:
"user's login id" @cedarville.edu
(i.e. JonesK@cedarville.edu)

Cedarville College Internet address for students:
"student's login id" @cedarville.edu
(i.e. S1234567@cedarville.edu)

14 Student Life



"Dorm life" leads to some of college's richest treasures--great fun, unforgettable memories, and lifelong friends.

Student Life

The college program is designed to contribute to the development of the intellectual, spiritual, social, and physical maturity of students. Student life involves each of these areas and is considered an integral part of the college learning experience. Cedarville College's commitment to the Bible as the final authority for faith and practice extends into every area of student life and leads to a conservative pattern of conduct.

A variety of educational, leadership, social, cultural, recreational, and Christian service opportunities are available to Cedarville College students. Such out-of-class activities contribute to personal development and enrichment and also provide outlets from the demands and pressures of academic life. A full range of student services, including campus activities, career planning and placement, counseling, financial aid, health, orientation, and housing, exist to assist students in the life long process of personal development.

Lifestyle Commitment

At Cedarville we believe that the principles found in the Bible should govern what we do. We believe that our behavior is to honor and manifest godly qualities. We also recognize that we have a responsibility to maintain a good testimony before unbelievers.

Consequently, all members of the college family agree to live according to the College's lifestyle commitment. Faculty, staff, and administrators reaffirm this commitment annually when they sign their contracts. Students affirm their agreement to live by this commitment as a part of the application process and upon registering for classes. Some of the aspects of this commitment reflect our biblical convictions; others reflect what we call "institutional preferences."

Specifically, we agree not to use alcoholic beverages, tobacco, or non-medical drugs. We also agree not to participate in social dancing or gambling, use unwholesome media materials, or hold membership in secret societies. We endeavor to dress appropriately and to have sincere respect for the Lord's Day. In all things we seek to serve Christ and avoid personal attitudes of distrust, dishonesty, selfishness, damaging criticism, disrespect, unethical conduct, and irreverence.

Those who choose to violate the lifestyle commitment may be dismissed. The violation of some policies such as those relating to stealing, visiting businesses such as bars--where the primary focus of the event or activity is in violation of the lifestyle commitment--immorality, using alcoholic beverages or illegal narcotics can result in immediate dismissal.

The lifestyle commitment and other residence life guidelines are described in detail in the Cedarville College Student Handbook.

Spiritual Emphasis

The College desires for each student to grow in his or her relationship with Christ. Consequently, students are urged to set aside a definite period each day for private devotions. Daily chapel services provide spiritual encouragement and enrichment. Additionally, all students are required to attend church services regularly. Opportunities for worship include the Cedarville Baptist Fellowship, which meets in the college chapel, as well as numerous fundamental churches within easy driving distance of Cedarville.

Spiritual growth is further encouraged through student prayer groups which meet regularly to pray for special needs. One day in Fall Quarter and one day in Spring Quarter is set aside as a "Day of Prayer," a time when the entire college family gathers to pray together.



Students hear internationally-known Christian speakers through the daily chapel program. Dr. Tony Evans, pictured here, was the 1995 Winter Enrichment Conference speaker.

16 Student Life

Housing

Residence hall living is considered an integral part of the educational process. An appropriate residence hall environment contributes to academic achievement, an understanding of one's self, and the development of interpersonal skills and appropriate attitudes toward others. Residence hall living also develops lasting friendships and rich memories. Consequently, all single students under twenty-five years of age, except those commuting from the home of their parents or legal guardian, are required to live in college residence halls. Students twenty-five and older must secure off-campus housing.

Approximately eighty percent of the student body lives on campus in college housing. Men and women are housed in separate residence halls. All offer convenient laundry and lounge areas; most house just two students per room. Each room is fully furnished and equipped with a phone, permitting students to dial and receive calls directly. Most of the residence halls offer computers in each room linked to CedarNet, the campus-wide computer network. Those living in residence halls without computers in each room have access to several computer labs on campus.

Housing assignments are made by the Student Services Office. Upperclassmen who have paid reservation fees are given priority for reserving rooms. New students are assigned rooms after they have been admitted and have submitted their reservation deposits. Complete information concerning residence hall staffing, furnishings, and policies is found in the Student Handbook, which is sent to new students prior to their arrival on campus.

Married students usually live in the apartment complex owned by the College or in one of many apartments in the area.

New Student Orientation

At the start of each quarter, new students participate in an orientation program designed to facilitate adjustments to their new surroundings and provide an opportunity for course selection and program planning with the assistance of an assigned faculty advisor. The fall program includes an orientation program for parents. Special interest sessions, question and answer times, small group meetings, and social activities provide opportunities for students and parents to meet new friends and adjust to a new environment. Help during winter and spring quarters is often provided on a one-on-one basis with a continuing student. Testing may be required during orientation for purposes of advising and placement.

Intercollegiate Athletics

Cedarville College maintains intercollegiate competition for men in baseball, basketball, cross-country, golf, indoor and outdoor track, tennis, and soccer.

Intercollegiate sports for women include basketball, cross-country, indoor and outdoor track, softball, tennis, and volleyball. Cedarville is a member of the Mid-Ohio Conference, the National Association of Intercollegiate Athletics, and the National Christian College Athletic Association.

Students interested in participating as a member of one of the intercollegiate athletic teams should contact the admissions office or the respective coaches. A limited amount of athletic financial aid is available for outstanding athletes.

Campus Activities

The Campus Activities Office provides a program of cultural, social, educational, and recreational activities that is consistent with college educational and spiritual objectives and, therefore, contributes to the personal development of college community members. An artist series provides concerts, cultural programs, and musical specialists. Other activities include a variety of learning experiences and social events such as banquets, talent nights, all-school parties, interest trips, retreats, topical discussions, and guest speakers. A full range of recreational and intramural sports for both men and women, including flag football, soccer, volleyball, basketball, racquetball, table tennis, walleyball, softball, badminton, river rafting, skiing, and golf, completes the integrative approach of Campus Activities.



Students look forward to hosting younger siblings on campus during Li'l Sibs Weekend held each February.

Involvement in campus organizations provides additional opportunities for learning and social interaction. Student organizations include:

Advisory 7 is an elected group of young men who serve the Campus Fellowship in spiritual leadership.

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

Alpha Delta Nu consists of students interested in criminal justice professions.

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

Alpha Phi Lambda is an organization dedicated to arts, philosophy, literature, and encouraging creativity on campus.

Alpha Psi Omega consists of students interested in psychology and behavioral sciences.

Amateur Radio Club provides assistance and training for anyone interested in promoting the use of amateur radio for Christian communications.

ASME is a student chapter of the American Society of Mechanical Engineers, a professional society. Students are encouraged to become involved in the activities of the organization which include plant tours, seminars, conferences, and competitions.

Beta Chi provides information and relevant opportunities for students pursuing broadcast-related professions.

Beta Rho Delta (German Club) promotes the use of the German language and increases the knowledge and appreciation of German culture to advance awareness of missions.

CZ, a campus spirit organization, seeks to promote enthusiasm and pride in college traditions and events.

Cedars editorial staff is comprised of students who publish the campus semi-monthly newspaper.

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

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

Chi Sigma Iota, the College's chapter of Collegiate Secretaries International, promotes interest in the secretarial field and encourages continuing education.

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

Data Processing Management Association (DPMA) is the College's student chapter of DPMA, an international professional association dedicated to advancing the data processing and information systems professions.

Delta Chi (Secondary Ed) is an organization that provides students with a Secondary Education emphasis a source of information and fellowship. It also provides opportunities for developing contacts in the Education Department and the education field itself.

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

Delta Pi Sigma is a social and service organization for women whose purpose is to seek fulfillment in the lives of its members both spiritually and professionally.

Earth Stewardship Organization is for students interested in promoting civil service, enjoyment, and stewardship of God's creation.

Emergency Medical Service is for trained students who provide prompt and professional pre-hospital care and transportation to Cedarville students in need.

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

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

Iota Chi promotes awareness of various cultures through information, service, and programs.

Kappa Epsilon Alpha provides insights into the world of business and promotes free enterprise through its Students in Free Enterprise program.

Literati seeks to foster a greater student appreciation of literature and promote related cultural events.

Married Student Fellowship is a group of married students organized for the purpose of spiritual and social development through family fellowship.

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

Miracle staff is a group of students responsible for the publication of the college yearbook.

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

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 College.

Pi Delta is a volunteer, honorary, coeducational student group whose purpose is to provide tours for campus visitors.

Pi Sigma Nu is a men's group that seeks to aid in the development of the whole man through service projects and social activities.

Prelaw Society is devoted to gathering and distributing information relative to a law career. Guest speakers address areas of personal experience and student interest.

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

Society for Technical Communicators promotes the purposes and services of technical communication systems.

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

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

Student Government Association is the elected representative assembly of the student body.

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

Students for Social Justice is committed to help meet the physical, emotional, and spiritual needs of the underprivileged.

Swordbearers is a voluntary student organization devoted to assisting local churches in the ministry to youth, visitation, and conducting area canvasses.

Tau Beta Alpha, Cedarville College Engineering Honor Society, recognizes juniors and seniors majoring in engineering for their outstanding scholastic achievements combined with a strong Christian character.

Tau Delta Kappa provides an opportunity for fellowship, exchange of ideas, and support of those students involved in the Honors Program.

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

Undergraduate Alumni Association works with the Alumni Association on coordinating activities and representing the student body with the Alumni Association.

Varsity "C" Club is composed of individuals who have earned varsity letters in intercollegiate sports.

Village Players seeks to contribute to the development of the drama program by encouraging excellence and by presenting and portraying the good qualities in the field of drama.

WSRN is the student-operated radio station of Cedarville College serving the student body with information and entertainment.

18 Student Life

Debate

Students who enjoy competitive intellectual situations and possess good speaking abilities are encouraged to audition for the Debate Team. Cedarville teams compete successfully with a wide variety of teams throughout the eastern United States. Students anticipating leadership careers such as the ministry, law, education, business, or politics find the debate experience particularly helpful. Limited scholarships are available for outstanding debaters. Those interested should contact the debate coach.

Drama

Each quarter, the Communication Arts Department presents a major theatrical production. In recent years, the department has produced William Shakespeare's *The Comedy of Errors*, Arthur Miller's *The Crucible*, Henrik Ibsen's *An Enemy of the People*, and the musicals, *Fiddler on the Roof*, and *The Sound of Music*. Open to students from all majors, these experiences provide theatrical training for participants and cultural enrichment for the entire college family. Students may earn academic credit for participating in college plays.

Forensics

Students with public speaking abilities may develop and demonstrate their communication skills through intercollegiate speech competition on the College's Forensics Team. Competing at both the novice and varsity levels, students participate in public address, oral interpretation, and limited preparation events. Students interested in participating should contact the forensics coach for more information. Limited scholarships are available for incoming freshmen with significant success in high school forensic competition.

Music Groups

Students with musical abilities may develop and utilize their talents in any one of a number of musical groups. Instrumentalists may participate in the Symphonic Band, Brass Choir, String Choir, Woodwind Choir, or Yellow Jacket Pep Band.

Vocalists may sing with the Concert Chorale, Men's Glee Club, Oratorio Chorus, Women's Choir or one of the many small ensembles directed by the division of Christian ministries. Membership in any of these groups is typically determined through auditions which occur during "Getting Started Weekend."

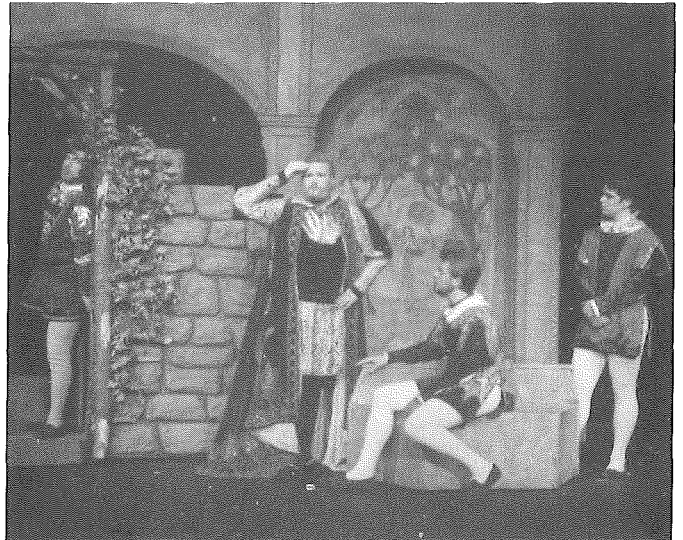
Student Government Association

The Student Government Association (SGA) is the representative assembly of the student body. SGA includes officers elected annually by the student body, two representatives from each class, and representatives from each residence hall and student organization. The purpose of SGA is to assist in providing a well-rounded program of extra-curricular activities, to help establish and maintain an efficient and harmonious school atmosphere, and to recommend to the proper authorities or to take action deemed necessary for the welfare of the student as an individual or for the student body as a whole. Election to SGA provides an opportunity to develop and exercise leadership in student affairs.

SGA is responsible for such fund-raising projects as the Student Body Project. SGA is also responsible for chapel services each Friday.

Student Publications

Students maintain primary responsibility for the publication of the college yearbook, *The Miracle*, and the college newspaper, *Cedars*. A faculty-student committee provides direction and advice. Students interested in staff positions may contact the respective editors.



Major drama productions each quarter invite students from all majors to participate.

WSRN

Students interested in applying and developing their skills in electronic media are encouraged to join the staff of WSRN, the College's student radio station. Operating at 530 AM, the station airs 56 hours weekly, serving the student body with entertainment and information. Though broadcasting students possess an edge as a result of their coursework in broadcasting, students from all majors are encouraged to apply for staff positions. Those interested should contact the WSRN station manager.

Career Services

The Career Services Office seeks to assist students in translating abilities, values, and aspirations into a plan of action for sound career decisions and employment.

Career Services provides materials which explore such topics as job search techniques, resume writing, interviewing, and gaining admission to graduate school. Interest inventory tests and a computer-assisted career development program are available to help students in determining majors and occupations. The office maintains a career library with job search information, company files for researching job opportunities, and graduate school catalogs.

The course COLL-400 Employment Strategies addresses topics relative to the job search. Available to all juniors and seniors during the winter and spring quarters, it offers one quarter hour of credit which may be applied toward graduation. A complete description of the course is listed in the Interdisciplinary Studies section of the catalog.

Special events such as Career Day in October, Nurse Recruiting Day in November, and the Christian School Recruitment Conference in February, are held each year to provide the opportunity for prospective employers to meet with students. Potential employers also visit the College for individual on-campus recruiting days.

Through the Resume Expert program, students who register with the office are placed in a job-match data base program which enables Career Services to provide resumes to employers. The office maintains credential files for all education majors and provides registered seniors and alumni with a reference/credential service. Existing employment opportunities are listed in biweekly job bulletins. Career Services provides students with pertinent job opportunity information and contact names through the campus-wide computer network system.

The College recognizes that most students solidify career goals during the collegiate experience. The Career Services Office endeavors to assist in this process by maintaining a library of pertinent information concerning career opportunities and providing testing and career counseling through which students become acquainted with the career decision-making process.

Counseling Services

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

Counselors are available to discuss personal problems, self-appraisal, decision-making, relationships, preparation for marriage, spiritual growth, and a variety of other concerns. Support groups are formed as needed. This service, for which students pay no additional charge, is provided by appointment. In the case of a crisis, the service is provided as needed.

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

Vehicles

Freshmen with grade point averages of 2.50 or higher may bring motor vehicles to the College after their first quarter. Sophomores, juniors, and seniors must maintain a 2.00 cumulative grade point average to retain the privilege of having a motor vehicle at the College.



Dozens of social service organizations visit the campus each year to recruit Cedarville graduates.

20 Christian Ministries

Christian Ministries

The Christian ministries department coordinates all college-sponsored student ministries. Cedarville views individual ministry involvement to be a vital and necessary part of each student's education and personal growth. The mindset and motivation for Christian ministries at Cedarville is reflected in the College's stated purpose and objectives.

The College strives to shatter the mindset of isolating Christianity to a Sunday-church experience. Students are taught that biblical Christianity is demonstrating a servant's heart in all arenas of life. All are challenged to consider how their academic disciplines, athletic interests, or hobbies can be used to demonstrate their faith. By stretching students' vision of ministry, Cedarville endeavors to develop a constant awareness of the call of God upon their lives to meet the needs of the individuals He providentially brings across their paths.

Directed by the vice president for Christian ministries and coordinated through 8 additional full-time staff members and several other part-time staff members, the Christian ministries department provides training and assistance to the hundreds of students who volunteer for any of the more than 100 different ministries each quarter.

Cedarville Baptist Fellowship

The Fellowship provides students with opportunities for worship, Sunday school, and prayer meeting right on campus, Sunday mornings, Sunday evenings, and Wednesday evenings.

The vice president for Christian Ministries, who also serves as campus pastor, directs the Fellowship, relying upon the Advisory Seven, a group of men elected by the students attending the Fellowship, to help coordinate the services and activities. These men oversee every aspect of the services. Students themselves teach Sunday school classes on a variety of topics. Speakers include off-campus guests, faculty, staff, and students. Special music, choir, song leaders, ushers, and all other positions are filled by students. These opportunities enable students to use and develop valuable ministry skills while gaining very practical experience.

The vice president for Christian ministries desires to be a pastor to the students while they are away from their home church. Students can be assured of his prayerful attention to each need and his strictest confidence in all matters of personal counseling.

Community Ministries

Cedarville College is located in a region known as the Miami Valley, an area encompassing the cities of Columbus, Dayton, and Cincinnati as well as the hundreds of smaller communities outside of these major metropolitan areas. Community ministries seek to serve individuals of this area by providing assistance in specialized areas, by meeting individual needs, and ultimately, by demonstrating the love of Christ. Approximately 40 teams serve the community each week.

Adult Literacy

Students involved in this ministry provide one-on-one or small group tutoring at a local vocational school to area adults seeking the GED (Graduate Equivalent Diploma). The close relationships that result often lead to opportunities for evangelism.

Campus Interaction Teams

Cedarville is conveniently situated near several other colleges and universities. Ranging in enrollments from 1,000 to 20,000 students, these schools offer Cedarville students excellent opportunities to build friendships with others their own age and win them to Christ. Students utilize Bible studies, discussion groups, and one-on-one interaction to share the truth of God's love.

Cedarville College Discipleship

Students interested in leading or participating in discipleship programs should contact the Christian ministries office.

Crisis Pregnancy Centers (CPC's)

Students assist several area centers that endeavor to provide information and counsel to women who are contemplating abortion.



Students enrich lives by showing love to people of all ages.

Gospel Missions

One-on-one interaction, serving food, maintaining facilities, preaching, and singing represent the ministries of students who work in area gospel missions.

Hospitals

Area hospitals invite Cedarville students to encourage patients or their loved ones. Specific tasks include encouragement, answering phones, and general patient or staff assistance.

Jail and Detention Centers

Students who minister in this area seek to provide comfort and strength through listening, Bible study, and directing recreational activities. There are many opportunities to share the hope of the gospel with people who face difficult problems.

Mentally Retarded/Developmentally Disabled

One-on-one and group contact with these special people involves teaching fundamental learning and motor skills, playing simple games, and just being a friend.

Nursing Homes

Students who participate in nursing home ministries seek to bring joy to residents while being sensitive to what these residents can teach them. Times of personal interaction, singing, playing instruments, preaching, leading Bible studies, and directing Sunday services characterize these ministries.

Youth Work

A variety of opportunities await students who wish to invest in the lives of youth. Types of ministries include big brother/big sister programs, Bible clubs, latch-key children programs, tutoring, and a variety of other youth-oriented activities.

Crosscultural Ministries

The College's own Missionary Internship Service (MIS) provides unique opportunities for students to experience missions first-hand. Each year, particularly in the summer, approximately 200 students minister around the globe through team and individual ministries. This involvement in missions aids missionaries in their work and helps students discern God's direction in their own lives. Participants raise their own financial and prayer support and report on their ministries upon returning. Some students choose to earn academic credit for their experiences.

Nearly 50 countries on every continent of the globe have been served by MIS participants since it started in 1970. For specific information concerning potential ministries and selection procedures, students should contact the MIS director in the Christian ministries office.

Individual Ministries and Internships

Students considering missions as a life-time vocation often use MIS to gain missions experience. Working with veteran missionaries anywhere in the world, students use and develop important ministry skills, gain cross-cultural insights, and discern God's leading concerning missions as a career. Some, by working with their academic advisors, earn academic internship credit for their experiences. Those interested should contact their academic advisors and missionaries on the fields on which they wish to serve.

Student Teaching

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

Teams

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



Sixteen summer ministry teams, comprised of students from a variety of majors, traveled internationally in 1995 through the Missionary Internship Service (MIS).

22 Christian Ministries



The Summer Swordbearers were one of four music or puppet teams that traveled in the United States to minister in churches and camps.

Drama and Puppet Ministries

The Lifeline Players

An eight-member group comprised of male and female students from a variety of majors, this team uses drama to encourage and challenge both youth and adults in their faith. Programs typically include short, often humorous, sketches depicting real-life situations where biblical truths can be applied. A traveling ministry, the Lifeline Players minister in churches and schools throughout the Midwest on weekends and during Spring Break.

The Master's Puppets

Students involved in the Master's Puppets use puppetry and a variety of other teaching methods to minister to children and youth. Men and women from all majors find this to be an extremely effective and enjoyable means of sharing God's truth.

MIS Puppets travel to other countries, usually during the Christmas, spring, or summer breaks.

The **School Year Master's Puppets**, normally a six-member team, travel during the academic year and during Spring Break.

The **Summer Master's Puppets**, a five-member team, travels during the academic year and the summer. Students on this team receive a salary for their summer's work.

Evangelistic Ministries

While evangelism, sharing the truth of God's love for man, is the ultimate goal of all ministries, several focus specifically on communicating the gospel to non-believers.

Open Heirs

As "joint heirs together" this team trains students to do evangelism work in the cities of the greater Miami Valley. This training is designed to help students use the most effective methods of making new friends and leading them to Christ.

Spring Break Teams

The **Inner City Impact Team** ministers to children in the inner city of Chicago through tutoring, Bible clubs, and youth activities.

Joy Ranch, a home for disadvantaged, abused, and problem children in Hillsville, Virginia, invites students to assist in the maintenance and improvement of ranch facilities and service of residents. In addition to performing light maintenance work, Cedarville students tutor and have social and ministry times with the children.

The **Master's Mission** invites students to Robbinsville, North Carolina, to gain practical experience in physical missions work. Tasks may include clearing brush, falling trees, painting, general construction, and landscaping.

The **Pacific Garden Mission** ministers to the homeless and destitute of Chicago.



Through their entertaining yet pointed presentations, the Lifeline Players influence people of all ages.

Local Church Ministries

AWANA

Several churches in the area surrounding the College invite students to work as leaders in their AWANA programs. Students work with all age groups.

Extension Teams

A division of the Swordbearers, extension teams go to the same church each week throughout the school year to assist in a variety of ministries ranging from nursery work to teaching and songleading.

Individual Ministries

The College strongly encourages students to become involved in the church of their choice and make it their Christian ministry. Students should contact the pastoral staff of the church for information concerning possible involvement. Some churches may require church membership or watchcare membership.

Music Ministries

Students with musical talents find a variety of ministries available to them. Team audition times are announced during College Week.

Abundant Life Singers

A ten-member mixed group of eight singers, a pianist, and a sound technician, this group travels during the school year and for a ten-week summer tour. Team members receive a salary.

Kingsmen Quartet

A six-member group of four singers, a pianist, and a sound technician, this group travels during the school year, spring break, and the summer for ten weeks. Team members receive a salary.

Summer Swordbearers

A twelve-member mixed group of singers, keyboard accompanists, and a sound technician, this group travels during the school year and the summer for ten weeks. Team members receive a salary.

Spring Swordbearers

A twelve-member mixed group of singers, keyboard accompanist, and a sound technician, this group travels during the school year and over spring break. Team members receive a salary.

Soloists and Small Groups

Students provide special music on and off campus at banquets, organizational functions, and special church meetings. Those interested in this type of ministry should contact the Christian ministry office for details concerning auditions and specific opportunities.

Selecting a Ministry

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

In selecting a ministry, students should apply the following:

- 1) Consider your interests. Select a ministry that allows you to do something you enjoy doing.
- 2) Consider your vocational goals. There are many ministries that are directly related to the majors offered at Cedarville College. A Christian Ministry related to your chosen field can help you decide if you have made the right choice, and in some cases may lead to an internship, reference, or employment.
- 3) Talk with upperclassmen. Find someone who has been involved in the ministry you are considering.
- 4) Talk with the Christian Ministries staff. The Christian Ministries Department is located in the Chapel and its staff are available to answer any questions that you might have.
- 5) Attend meetings. There will be traveling team auditions and organizational meetings during the first two weeks of fall quarter. Watch carefully for instructions on how to get involved.

Requirements

- 1) The Christian ministries program at Cedarville College is a volunteer program. All students are encouraged to participate in Christian ministries on a regular basis during their college experience.
- 2) At the end of each quarter, each student is required to complete an "End of the Quarter Report" form. This form is used to record on each student's permanent file their current area of ministry involvement. It should be completed even if a student has not been involved in a ministry.
- 3) Any ministry approved or offered through the Christian Ministries Department (or through your local church) qualifies as a Christian ministry. If a student is involved in a ministry outside of the Christian ministries department, it should be reported on the "End of the Quarter Report."

24 Admissions

Admissions

Cedarville College invites applications from secondary school students who are able to present strong academic records and a clear testimony of faith in Jesus Christ. In selecting students, the Admissions Committee admits students who are most likely to graduate and who offer potential to contribute positively to the college community. They carefully consider all factors which demonstrate the applicant's ability to succeed at Cedarville College.

Criteria for selection include:

1. Evidence of a personal relationship with Jesus Christ and a consistent Christian lifestyle.
2. Academic record, recommendations, and rank in class.
3. Test scores from the American College Test (ACT). Scores from the Scholastic Aptitude Test (SAT) will be accepted. However, scores from the ACT are preferred. Since these scores are used for placement purposes, transfer students may be requested to submit them.

The College does not discriminate on the basis of race, color, sex, or national origin.

Applicants with the best prospects for admission have academic credentials that include a college preparatory secondary school curriculum, a "B" grade average, a rank in the upper half of the class, and a test score on the ACT above the national average.

Students who wish to attend the College on a part-time basis should follow the same admission procedures.

The College admits students with various physical handicaps. Through specific counseling, adjustments are made to enable these students to achieve their educational objectives. Additional information concerning specific services is available from the Student Services Office.



Entire families often choose to attend the College. Elena (not pictured), Sharon, Christine, and Linda Michael all graduated from Cedarville.

Secondary School Requirements

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

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

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

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

Home-schooled Students

Students with nontraditional secondary school experiences may be considered for admission. Typically, scores from standardized tests such as the ACT or SAT are used to help assess readiness for college-level academic work. To assist students unable to take the ACT locally, the College offers the ACT on campus on a monthly basis to prospective students.

Except for those admitted under the Early Admission Program, students must give evidence of high school completion by the time they begin taking courses at the College. Students who are home-schooled or have experienced other types of nontraditional secondary school experiences must submit high school equivalency diplomas or an ACT composite of 22 or above, or SAT verbal and mathematics scores of 500 or above upon enrollment.

Family Rights and Privacy Act

Cedarville College 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 College has adopted a policy which explains in detail the procedures followed for compliance with provisions of the Act. Copies of the policy are available in the Academic Records and Student Services Offices.

Early Admission

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

Admission Procedures

A student should complete the following steps in order to be considered for admission to Cedarville College:

1. Obtain, complete, and return an application for admission. Applications are available from and should be returned to the Admissions Office. Necessary recommendation forms are included in the application. A \$30 fee and two current photographs should accompany the returned application.
2. Take the American College Test (ACT) or the Scholastic Assessment Test (SAT) and have the score reports sent to Cedarville College. (Use the Cedarville ACT code of 3245 or SAT code of 1151 when you register for the tests to have your scores sent directly.) The application for admission may be submitted before taking this test.
3. Request that high school transcripts through the junior year be sent, along with a recommendation from the high school counselor. Class rank at the end of the junior year should be included.
4. Request a recommendation from the pastor of the church he or she attends.
5. Request that official copies of transcripts for work completed at other colleges be sent (transfer students).

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



Finding good friends is one of the greatest benefits of attending a Christian college like Cedarville.

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 and nursing apply for admission to their respective programs during their sophomore year after the program prerequisites have been satisfied. Therefore, students should review the specific entrance requirements outlined in the respective departmental sections of the catalog. Admission to the College does not guarantee admission to an academic program.

Academic Development Program

The College offers a supplemental academic assistance program to serve students whose academic backgrounds do not reflect their collegiate academic potentials. Components of this program include an orientation course entitled Transitions 100, special advising, tutoring when necessary, and diagnostic testing, in some cases. Admission to the Academic Development Program is determined by the Admissions Committee. Students selected to be involved in the Program usually take a typical freshman course of study comprised of general education requirements.

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

Readmission

A student whose academic work has been interrupted for one quarter or more must apply for readmission two months before the beginning of the quarter in which he desires to matriculate. Readmission forms are available from the Admissions office. If college level work has been completed elsewhere, official transcripts should accompany the application for readmission.

A student who has been readmitted after one year away from Cedarville College is expected to complete the graduation requirements as outlined in the catalog in current use at the time of reenrollment.

Deadlines and Notifications

Cedarville College follows a rolling admissions procedure. An application is processed as soon as the file is complete. A completed file includes an application for admission, \$30 application fee, ACT or SAT scores, high school transcript, college transcript (if applicable), high school counselor's recommendation, and pastor's recommendation. Applicants are notified by letter within two weeks after the Admissions Committee acts upon the completed file.

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Reservation Deposit

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 is credited to the student's account and used to cover first quarter 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 before the reservation deposit deadline. Requests for refunds received after the reservation deposit deadline are partially refundable (\$150 of the \$250 deposit) until the refund date. No refunds are available after the refund dates.

Reservation deposit submission deadlines and refund dates are as follows:

Term	Deadline	Refund date
Fall Quarter	May 1	August 15
Winter Quarter	November 1	December 1
Spring Quarter	February 15	March 1
Summer Session I	May 15	June 1
Summer Session II	July 15	August 1

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



Dr. and Mrs. Dixon make it a priority to spend time with students, particularly at informal events.

Advanced Placement

High school students may receive advanced collegiate standing by participating in the Advanced Placement Program. Up to sixty credits may be earned through this program or by other test-out procedures.

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 request that scores from these examinations be sent directly to Cedarville College by entering code number 1151 on their registration forms. Upon receiving these scores, the College determines the appropriate amount and type of credit for each examination. Scores of 3, 4, or 5 must be earned in order to receive college credit. No fees, other than the fees accompanying the examinations, must be paid in order to receive the college 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 College, students should enter code number 1151 on their CLEP registration forms. By earning scores above specified levels, students receive college credit in specific course areas. Up to sixty credits may be earned through this program or by other test-out procedures. A complete list of the appropriate tests and respective Cedarville courses as well as registration information is available from the Admissions Office. Like Advanced Placement, no fee, other than those accompanying the examinations, must be paid in order to receive college credit through CLEP.

Students who wish to use a CLEP examination to satisfy the General Education requirement ENG-110 Composition I must have earned a credit-satisfying score by the end of their second quarter (two quarters after their initial full-time matriculation). CLEP may not be used to satisfy the General Education requirement ENG-140 Composition II.

Students who wish to use CLEP examinations to satisfy General Education requirements in foreign language, mathematics, natural sciences, and social sciences must have earned credit-satisfying scores on the respective CLEP examinations by the time they earn 90 credits (attend Cedarville College two years).

Transfer students transferring more than 90 credits must earn credit-satisfying scores on respective CLEP examinations by the end of their first quarter of full-time attendance at Cedarville.

International Baccalaureate

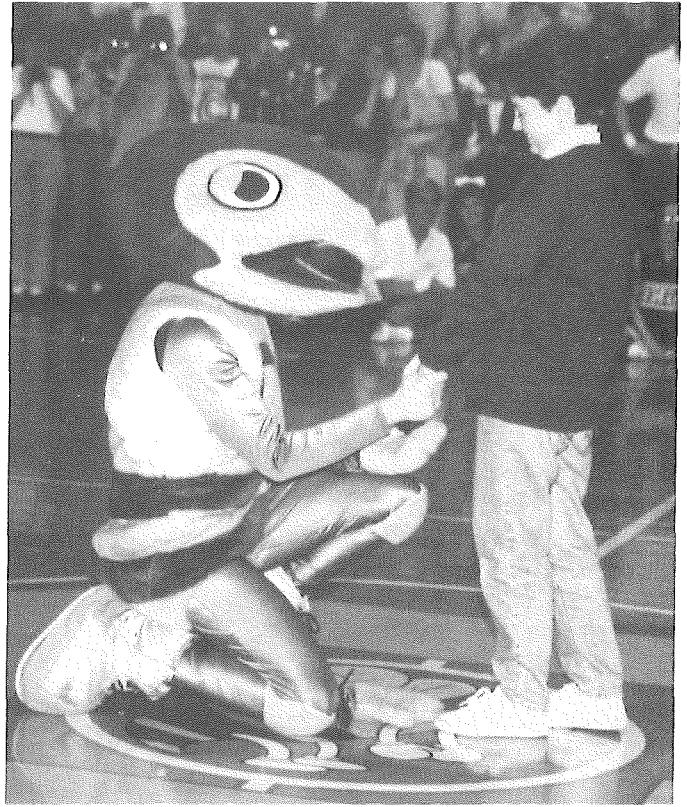
The International Baccalaureate (IB) is an internationally-recognized program that enables students to follow a special curriculum and take specific examinations to fulfill secondary school graduation requirements. Students can earn up to thirty quarter hours for IB Higher Level examinations on which they earn scores of 5, 6, or 7. A maximum of ten credits is permitted in any one group. To receive credit, students should submit IB transcripts to the Admissions Office.

Transfer Students

Students who wish to transfer to Cedarville should submit, along with their applications for admission, official transcripts of credit from all colleges attended. College-level credits earned at accredited colleges are usually transferable. Courses in which less than a "C" is earned are not granted transfer credit. Information concerning the transfer of credits is available from the Academic Assistance Center. Specific course equivalencies can be determined by the coordinator upon receipt of official transcripts.

When computing cumulative grade point averages for students who have transferred credits from other colleges, only the work completed at Cedarville is included.

To help in the transition to Cedarville College and to meet other new transfer students, all transfer students are required to attend New Student Orientation.



The ultimate engagement proposal happens even at basketball games in front of more than 2,000 excited fans.



Occasional winter snow storms bring out student creativity, leading to unforgettable fun and lifelong memories.

International Students

Cedarville College welcomes applications for admission from students of all nations. The College was approved for attendance by nonimmigrants by the Immigration and Naturalization Service in 1959. International students should follow the college admissions procedure carefully, submitting their applications well in advance of deadlines so that sufficient time is available for processing and communication. Those coming from countries in which English is not the native language may need to demonstrate their proficiency in English by taking the Test of English as a Foreign Language Examination (TOEFL).

To satisfy United States Immigration and Naturalization requirements, upon acceptance international students must deposit at the College \$14,500 in United States currency or submit a certified affidavit of support which demonstrates the ability to cover college-related expenses. Full admission to the College is granted upon receipt of these funds or affidavit. Questions concerning this procedure should be directed to the associate director of admissions.

Grants and scholarships for international students are limited. Some international students work on campus. Permission for off-campus employment must be secured from the International Student Advisor.

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Academic Information

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

Degree Requirements

Cedarville College grants six baccalaureate degrees and one associate degree: Bachelor of Arts (B.A.), Bachelor of Music Education (B.M.E.), Bachelor of Science (B.S.), Bachelor of Science in Electrical Engineering (B.S.E.E.), Bachelor of Science in Mechanical Engineering (B.S.M.E.), Bachelor of Science in Nursing (B.S.N.), and Associate of Arts in Office Technology (A.A.).

A degree candidate should carefully study the requirements for that degree as well as the special requirements for graduation found in this bulletin. Careful attention to these requirements will enable the student to avoid doing work which will not apply to a degree. **The student is responsible to see that graduation requirements are met.**

Bachelor's degree requirements are listed below. Requirements for the Associate of Arts in Office Technology are listed in the Department of Business Administration section of the catalog.

1. Meet all admission and proficiency requirements.
2. Complete at least 192 quarter hours (not including proficiency), 48 hours of which must be of upper division work (300-400 level courses).
3. Maintain a grade point average of not less than 2.00.
4. Establish minimum residency of one year (48 quarter hours, normally the senior year).
5. Complete the general education requirements. (The biblical education requirement for freshman and sophomore transfer students is 24 quarter hours; junior and senior transfers normally must complete at least one biblical education course for each quarter of full-time residence including BEGE-376 God and the Church.)
6. Complete the specific requirements for the desired major, one third of which must be taken from Cedarville College. Students should check their departments for any additional requirements unique to their area.
7. Demonstrate proficiency in the use of the English language on a standardized examination or complete English Composition (ENG-110, ENG-140) with at least a 2.0 grade point average, on a four-point scale.

8. Complete at least two years of high school level or one year of college level classical or modern foreign language.
9. Participate in the college testing program when offered.
10. Complete an application for commencement and pay the graduation fee.

Curriculum Outline	Quarter hours
Proficiency	0-8
Other General Education requirements	80-102
Major field requirements and cognates	48-100
Electives	0-64
Total (minimum not including proficiency)	192

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

Selection of 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 College offers special advising and services to help students making these important decisions.

Students uncertain of a major begin as "general studies" or "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, general studies students typically take courses specified as meeting the General Education requirements. They are also encouraged to utilize the resources of the Career Services Office. This office offers career profiles, interest inventories, and counselors so that students in the midst of making career decisions have good information.

Most general studies 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 quarter can cause students to take longer to complete degree requirements. The suggested four-year curricula listed with each major in the catalog outline the recommended course sequences.

Major Field

The amount of work for a typical major field approximates 50 quarter hours and must include the requirements of the department. Comprehensive majors are typically from 70 to 90 hours. Specific requirements are listed at the beginning of department course offerings.

No courses in which "D" grades are received may be counted as meeting the requirements of the major field. Department chairpersons may suggest that an alternate course be taken rather than repeating the course.

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 sixty quarter hours of course work lend themselves to this approach.

Special Academic Programs

Cedarville offers several special programs designed to enhance the collegiate experience and/or to help prepare for particular careers:

- Emergency Medical Technician Training
- Environmental Studies
- Honors
- Medical Technology
- One-year Bible Certificate
- Premedical/pre dental
- Prepharmacy
- Preveterinary
- Prephysical therapy
- ROTC - Army and Air Force
- Secondary Education (17 areas of certification)
- Office Technology (A.A. degree)
- Special Education
- Study Abroad Programs
- TESL (Teaching English as a Second Language)

Descriptions of these programs are located in this section of the catalog or in the academic departments sponsoring the programs.

Electives

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

Major Fields of Study

The College offers forty-eight major fields of 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.

- Accounting
- American Studies*
- Applied Psychology
- Athletic Training
- Bible, Comprehensive
- Bible, Preseminary
- Biology
- Broadcasting
- Business Communication Technology*
- Business Education
- Chemistry
- Communication Arts
- Computer Information Systems
- Criminal Justice
- Electrical Engineering
- Elementary Education
- English
- English Education
- Finance
- History
- History-Political Science
- International Studies*
- Management
- Marketing
- Mathematics
- Mathematics Education
- Mechanical Engineering
- Multimedia Technologies
- Music
- Music Education
- Music Education, Secondary
- Nursing
- Physical Education
- Physical Education, Comprehensive
- Physical Education, Secondary
- Political Science
- Prelaw*
- Professional Writing
- Psychology
- Public Administration*
- Science, Comprehensive
- Social Science
- Social Work
- Sociology
- Spanish
- Spanish Education
- Speech Education

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Minor Fields of Study

Twenty-four hours in a particular field of study usually constitute a minor. Cedarville graduates complete a minor in Bible as part of the General Education requirements. (One third of the minor must be completed at Cedarville.) Other minor fields are optional.

Available minors include:

- Athletic training
- Biology
- Broadcasting
- Business administration
- Chemistry
- Christian ministries management
- Church education
- Coaching
- Communication arts (general)
- Computer information systems
- Criminal Justice
- Creative Writing
- Economics
- English
- German
- Greek
- Health education
- History
- International business
- Mathematics
- Music
- Music, Church
- Organizational communication
- Philosophy and religion
- Physics
- Platform Arts
- Political science
- Psychology
- Public administration
- Sociology
- Spanish

General Education Requirements

The College requires a pattern of courses which helps achieve college objectives. These objectives lead to an educational experience which broadens the student's outlook and knowledge.

The general education pattern is:

Quarter Hours

I. Proficiency 0-8

Each student upon initial enrollment at the College must take placement examinations in English and mathematics. These examinations should be taken before, but not later than the end of the first quarter of matriculation.

A. English (0-4)

Students who have satisfied one of the following requirements are exempt from taking the placement examination in English. Standardized test scores earned more than three years before matriculation will not be accepted for placement purposes.

1. Scored 49 or above on the CLEP Freshman College Composition Test; or
2. Scored 21 or higher on the English section of the ACT; or
3. Scored 500 or higher on the Verbal section of the recentered SAT; or
4. Completed a course equivalent of ENG-110 English Composition I with at least a grade of C- (A = 4.00 system) at another approved institution of higher learning.

Students who do not earn the score on the placement test specified for proficiency are required to take ENG-100 Basic English (4 quarter hours) as soon as possible after matriculation. These credits do not apply to the 192 credits needed for graduation.

B. Mathematics (0-4)

Students who have satisfied one of the following are exempt from taking the placement examination in mathematics. Standardized test scores earned more than three years before matriculation will not be accepted for placement purposes.

1. Scored 19 or higher on the Mathematics section of the ACT; or
2. Scored 500 or higher on the Quantitative section of the recentered SAT; or
3. Completed a course equivalent to GSCI-184 College Algebra with at least a grade of C- (A = 4.00 system) at another approved institution of higher learning.

Students who do not earn the score on the placement examination specified for proficiency are required to take GSCI-101 Basic Mathematics (4 quarter hours) prior to the beginning of their junior year. These credits do not apply to the 192 credits needed for graduation.

II. Biblical Education 24

- A. BEGE-171 The Christian Life 4
- B. BEGE-172 Introduction to Bible Study 4
- C. BEGE-273 Old Testament Survey 4
- D. BEGE-274 New Testament Survey 4
- E. BEGE-375 God and History 4
- F. BEGE-376 God and the Church 4

III. Communication 10-15

- A. ENG-110 English Composition I +5
 - B. ENG-140 English Composition II 5
 - C. COM-110 Fundamentals of Speech 5
- +Students who score 27 or better on the English section of the ACT or 650 or better on the recentered Verbal section of the SAT are exempt from taking ENG-110 English Composition I.

IV. Humanities 14-16

- A. HUM-140 Introduction to the Humanities 5
- B. Any five credit literature course ++5
- C. At least four qtr. hours from the following: ++4-6
- ANTH-180 Cultural Anthropology 5
- BEPH-220 Introduction to Philosophy 5
- BEPH-225 Ethics 5
- BEPH-226 Religion and Culture 5
- COM-141 Introduction to Dramatic Arts 3
- COM-314 Intercultural Communication 4

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COM-411 History of Public Address	5
EDUC-320 Children's Literature	3
EDUC-321 Philosophy of Education	3
ENGR-480 Professional Ethics	4
HLMU-231 Introduction to Music Literature	4
HUM-300 American Popular Music	4
PYCH-372 Psychology of Personality	5
Any second year foreign language course	5
Any other 4 or 5 hr. literature course	4-5

++In satisfying requirements B and C students may not take more than one course from their major field of study. Education majors, however, may take EDUC-320 Children's Literature and EDUC-321 Philosophy of Education to fulfill criterion C.

V. Global Awareness

Bachelor of Arts (B.A.) and Bachelor of Music Education (B.M.E.) degrees must complete one of the following:

1. Pass three years of the same foreign language in high school
2. Live in a non-U.S. cultural immersion experience for at least one school year after the age of 12
3. Pass two years of the same high school foreign language or pass the third quarter of a college level foreign language and one of the following:
 - a. A global awareness course selected from the list of courses below
 - b. Completing an approved intercultural experience of at least four weeks duration

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

1. Pass two years of the same foreign language in high school
2. Pass the third quarter of a college-level foreign language
3. Live in a non-U.S. cultural immersion experience for at least one school year after the age of 12
4. A global awareness course from the following:
 - ANTH-180 Cultural Anthropology
 - BEPH-226 Religion and Culture
 - BUS-291 International Business
 - COM-314 Intercultural Communication
 - ECON-338 Developmental Economics and the Political Economy
 - GEO-352 World Regional Geography-East
 - GEO-354 Geography of Africa
 - GEO/HIST/POLS-321 History and Political Development of East Asia
 - GEO/HIST/POLS-322 The Middle East: History and Politics
 - HIST/SOC-375 Social Movements
 - NSG-420 Culture and Health
 - SPAN-364 Introduction to Hispanic Literature
 - SPAN-460 Hispanic Civilization
5. Completing an approved intercultural experience of at least four weeks duration

VI. Physical Education	3
A. PEF-199 Physical Activity and the Christian Life	2
B. One general physical education activity course chosen from PE-100 through PE-212	1

VII. Science and Mathematics	15
A. One course from the biological sciences	5
B. One course from the physical sciences	5
C. One science or mathematics elective	5

VIII. Social Sciences and History	14
A. GSS-100 Foundations of Social Science	5
B. One course in history	4-5
C. Electives in social sciences or history	4-5

Total General Education Requirements80-102

Many of these courses also satisfy the requirements for major fields of study. The specific major field requirements listed in each department section of the catalog should be consulted to determine which courses apply.

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 respective sample four-year curricula found by each major field of study in the catalog outline this sequence.

Because of the importance of several of the requirements to all students, *the following courses must be completed before the beginning of the junior year or before a student earns 90 quarter hours:*

- BEGE-171 The Christian Life*
- BEGE-172 Introduction to Bible Study*
- COM-110 Fundamentals of Speech*
- ENG-110 English Composition I*
- ENG-140 English Composition II*
- PEF-199 Physical Activity and the Christian Life*

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Graduation

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

The catalog in use when a student first enrolls governs his graduation requirements unless that catalog is over ten 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. However, a student may select a subsequent catalog if the student wishes; but all requirements from that catalog must be completed.

Students who cannot complete their graduation requirements before the end of the spring quarter in their senior year, but who can complete them during the following summer or fall, will be granted their diplomas in September or December, as appropriate. A separate application is required, however, along with a \$100 deposit. Seniors who are eligible to receive their diplomas in September or December may be approved to participate in the June commencement preceding the completion of their work. Information concerning eligibility for September or December graduation is available in the Registrar's Office.

Sessions and Credits

The regular college year consists of three quarters of eleven weeks each, extending from September to June. Credits are earned in terms of quarter hours, a quarter credit hour being one fifty-minute period a week for one term. As an illustration, a student completing the work required in fifteen such periods a week for one quarter receives credit for fifteen quarter hours. Laboratory sessions, applied music courses, physical education courses, compressed courses, and internships are exceptions to this pattern.

Academic Advising

Each student is assigned to an academic counselor who offers advice 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. The student should consult with his or her advisor not only at registration but also throughout the year whenever an academic problem is encountered or plans for changes of educational programs or procedures are being formulated. A student with low grades in a major or minor field may be advised to select another field of study.

Transient Study

Coursework to be completed at other institutions by a student enrolled at Cedarville College must be approved by the registrar, his or her academic advisor and the chairperson of the academic department governing the course requirement that the transferred course is to satisfy. This approval must occur before the course is taken. Course approval forms are available in the Academic Records Office.

Course Load

Assuming that proficiency requirements have been satisfied, a minimum of 192 quarter hours is required for graduation. A student should average sixteen credit hours each quarter to graduate upon completion of the twelfth quarter. Fifteen or sixteen hours each quarter is considered the normal course load.

Students working more than twenty hours per week are not advised to carry a full course of studies.

The student's academic load is subject to reduction or limitation by the academic vice president for poor scholarship or excessive work outside of school hours.

Students who wish to take more than 18 credit hours must obtain special permission to do so. Those who wish to take 18-21 credits with a cumulative grade point average of at least 2.5 must obtain approval by the registrar. Those who wish to take 18-21 credits with a cumulative grade point average of less than 2.5 must obtain the approval of the academic vice president. All students who wish to take more than 21 credits must obtain permission from the Education Policies Committee.

Classification of Students

Regular students are those who have met the requirements for admission. Regular standing implies that the student is enrolled in a degree program and is carrying at least twelve quarter hours of credit in that academic quarter. **Special students** are those who are not enrolled in degree programs. **Part-time students** are those who have met all admission requirements, are seeking a degree, and are taking fewer than twelve quarter hours. **Transfer students** are those who have studied full-time for at least one term at another accredited college or university.

Assignment to Classes

Official class membership is determined according to the following schedule:

Class	Quarter hours completed
Freshman	1-41
Sophomore	42-89
Junior	90-134
Senior	135 and up
Special	assigned

Class Attendance

The objectives of class attendance policy generally include the development of personal motivation for appropriate attendance and the exposure of students to different attendance procedures. In general it is to be noted that 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 which will meet the particular needs of the course.

Out-of-Class Courses

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

1. The course must be 200, 300, or 400-level.
2. Approval must be obtained by the department chairperson, the faculty member teaching the class, the advisor, and the registrar.

Out-of-class course approval forms are available in the Academic Records Office. Exceptions to the student classification and course level requirements listed above must be approved by the respective faculty member, department chairperson, advisor, and academic vice president.

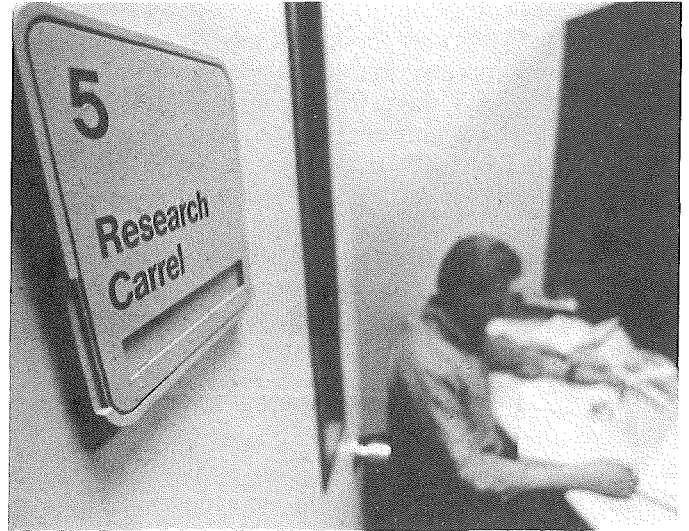
Internships

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

Correspondence Study

Although correspondence study cannot replace the experience gained through actual classroom instruction and discussion, occasional utilization of correspondence study may be appropriate. Cedarville College does not offer such courses. Information concerning these programs is available in the Academic Records Office.

Credits received for correspondence study are treated in the same manner as transfer credits. The total number of quarter hours of correspondence study accepted toward completion of degree requirements may not exceed fifteen. Correspondence study is not counted as residence credit, and therefore cannot be counted toward the residence requirements. For continuing students at the College, prior permission must have been received for each course from the department chairman, the academic advisor, and the registrar. Permission forms are available in the Academic Records Office.



Individual study carrels in the Centennial Library may be reserved by upper-classmen conducting research for independent studies or special assignments.

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 which 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.
2. The maximum credit which may be earned for an independent study project is four quarter hours.
3. The faculty member supervising the independent study must review and initial the student's copy of the written proposal and the registration card. Registration for the independent study must occur at the beginning of the quarter in which the work is to be completed.
4. No more than eight hours in independent study may be counted toward the major field; no more than four hours toward a minor field; and no more than sixteen may be counted toward graduation. Independent study taken outside major and/or minor fields must be approved by the department chairman and the academic vice president.
5. Although grade point average is not qualification for independent study, the faculty member has the right to deny student participation for any appropriate reason.
6. Grading (letter or CR/NC) is determined by the participating faculty member.

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Testing Out Procedure

Qualified students may earn credit toward graduation by passing the appropriate examinations with a grade of "B" or better. A student interested in testing out should obtain a course test-out form from the Academic Records Office, obtain the approval of the chairperson of the department in which the course is offered, and contact the instructor of the course to set up the test.

A student may not test out of a course previously audited. Tests must be taken during registration week or during the first two full calendar weeks of the quarter.

Upon testing out of a course, a student must pay one-half tuition for the course credit. Credit for the course with a designation indicating "test-out" will appear on the student's transcript. A grade of CE (credit by examination) will appear. The grade or credit will not be computed into the cumulative grade point average. Credit for which a student earns test-out credit during a quarter does not count toward the twelve quarter hours required for full-time status for that quarter. No student may earn more than sixty quarter hours of test-out credit through tests administered at the College, CLEP, AP, or any other recognized testing agency.

Special Academic Programs

Au Sable Institute of Environmental Studies

Students with an environmental biology emphasis may take advantage of courses offered by the Au Sable Institute including field botany, land resources, limnology, animal ecology, and restoration ecology. In a setting of the forests, wetlands, lakes, and wild rivers of northern lower Michigan, students take courses which provide academic content, field experience, and practical tools for stewardship of creational resources. The Institute grants vocational certificates for environmental analysts, land resource analysts, water resource analysts, and naturalists. Qualified students are awarded the Au Sable Fellowship of up to \$1,000. One or more Institute Grants-in-Aid of at least \$350 are also available each year. Honors scholarships of \$500 and Au Sable stewardship awards of \$350 are granted to returning students. Interested students should contact Dr. John Silvius, Cedarville College's Au Sable Institute Representative.

Coalition of Christian Colleges and Universities Study Programs

The Coalition of Christian Colleges and Universities sponsors several study programs that are open to Cedarville College students. For additional information, contact the academic vice president or the Coalition of Christian Colleges and Universities, 329 Eighth Street, N.E., Washington, D.C., 2002-6158, 202-546-8713.

American Studies Program

Students study public policy issues and serve internships in Washington, D.C. for an academic term.

Family Studies Institute

Students work with Focus on the Family in Colorado Springs, Colorado, taking courses taught by leading authorities on family issues.

Latin American Studies Program

Students live for an academic term in San Jose, Costa Rica, and study Latin American politics, economics, religion, language and culture.

Los Angeles Film Studies Center

Students take advantage of the rich film environment of Los Angeles, exploring the film industry within a Christian context and from a liberal arts perspective.

Oxford Summer School

Students study in England under the tutelage of Oxford dons in association with the Centre for Medieval and Renaissance Studies (Keble College).

Emergency Medical Service

The Emergency Medical Service was established at Cedarville College in 1969. The squad is comprised of approximately a dozen students (EMT's, Advanced EMT's, and Paramedics) who volunteer their time to act as the Emergency Medical Service division of Patterson Clinic. Members of the squad must be certified in the State of Ohio as Emergency Medical Technicians. The squad responds to emergencies both on campus and in the community through mutual aid with the Cedarville Township Fire Department.

Since national certification is necessary for membership in the squad, the College grants credit to those students who complete the National Registry's approved programs in Emergency Medical Technician, Advanced Emergency Medical Technician, and Paramedic programs. Upon receipt of bonified copies of 'National Registry' certificates of completion, the College will grant five quarter hours of elective credit for Emergency Medical Technician training, three quarter hours for Advanced Emergency Medical Technician training, and eight quarter hours for Paramedic training. CCEMS (Cedarville College Emergency Medical Service) sponsors the Basic EMT class in the evenings each quarter, Fall, Winter, and Spring. Because these courses are not taught by the College, they are not considered as part of a student's Cedarville College academic load. The class prepares the student for both State of Ohio and National Registry certification. This aids those who wish to find summer experience as either volunteer or paid EMT's in their home states.

CCEMS is both represented in the Student Government Association and considered a Christian ministry team. Membership on CCEMS provides exciting opportunities for ministry and valuable experience to students of all majors.



The student body and college administration joined together to raise funds for the ambulance used by the student-run Emergency Medical Service.

One-Year Bible Program

The College offers a concentrated program for the student who desires a formal education in Bible before he pursues his vocation at home or engages in a field of technical study not available in a Christian school. It is designed so that a student can function as a more knowledgeable layman in his church. This curriculum is outlined in the Biblical Education section of the catalog.

Philadelphia Study Tour

Late in the summer, before the opening of the academic year, the historians of the College conduct a study tour of historic Philadelphia and its environs. Students earn academic credit while tracing the steps of America's founding fathers to Independence Hall, Betsy Ross House, Valley Forge, and other sites. Information about this program may be obtained from the Department of Social Sciences and History.

Preprofessional Programs

Many students seek specialized training in professions after attending Cedarville College. A number of preprofessional programs are available. The preseminary curriculum which prepares students for seminary studies and the gospel ministry is outlined in the Department of Biblical Education section of the catalog. The prelaw curriculum prepares students for law school and is explained in the Department of Social Sciences and History section of the catalog. Preprofessional curricula in dentistry, medical technology, medicine, optometry, osteopathy, pharmacy, physical therapy, and veterinary medicine are described in the Department of Science and Mathematics section of the catalog.

A listing of graduate and professional schools attended by Cedarville graduates is available from the respective academic department chairmen or preprofessional advisors.

Study Abroad Opportunities

ARRIBA

ARRIBA, Academic Residency and Research Internship for Baptists Abroad, is a work/study program sponsored by Cornerstone College in cooperation with Baptist Mid-Missions. Cedarville students in any major may earn up to forty-five quarter hours credit in Spanish, sociology, biology, religion, missions, cross-cultural studies, and general electives. Students involved in the program spend one year in the area of Cuenca, Ecuador, where classroom theory is integrated with practical application and experience in cultural studies, church planting, and alpine and rainforest studies, under the direction of experienced missionaries and college professors. Students interested in the program should contact Dr. John Silvius for additional information.

Travel Study Abroad Program

Cedarville College sponsors a travel study abroad program in which students study language and culture for five weeks. This intensive study program allows students to experience the culture, learn about the country, and improve language skills through studying, staying with families, attending church services, and visiting historical sites.

Students having completed elementary Spanish can earn up to 18 hours credit in a summer with 8 of these being abroad. Students with foreign language backgrounds who have satisfied the graduation requirement in language can earn additional advanced credit in foreign language.

Detailed information is available from the Director of Summer School and Continuing Education.

Overseas Study Programs in Israel

Cedarville College cooperates with an institute in Israel to provide an experience of study and travel. Through the Institute of Holy Land Studies, located in Jerusalem, a student can choose two programs: long-term, consisting of a quarter or a year abroad; and short-term, a 23-day program in the summer in which a student can earn six quarter hours, which count as two general education electives (Bible and history).

Latin American Studies Program

Cedarville cooperates with other study abroad programs, especially with the Coalition of Christian Colleges and Universities' Latin American studies program in San Jose, Costa Rica. Interested students should contact Dr. Barbara Loach for details.

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Summer School

The College typically offers two summer terms. The first lasting five weeks from mid-June through mid-July. The second five-week term immediately precedes the start of classes in the fall. Other special sessions are occasionally offered. A student may earn up to ten quarter hours each term. Additionally, other summer course offerings are available at specifically designated times.

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

High school students who have completed their junior years and who display sufficient academic strength may enroll in the Summer Studies Program. Some in this category who are children of graduates of the College may qualify for the popular Alumni Children Scholarship Program which provides tuition-free credit.

Continuing students interested in attending summer school should contact the summer school office. New students should contact the Admissions Office.

The following courses are typically offered during the summer:

Biblical Education

BEGE-171 The Christian Life
BEGE-274 New Testament Survey
BEGE-375 God and History

Business Administration

CIS-100 Introduction to Computers
ECON-234 Macroeconomics

Communication Arts

COM-141 Introduction to Dramatic Art

Education

EDUC-100,101 Introduction to Education
EDUC-102 Education of Exceptional Children
EDUC-250 Early Childhood Education
EDUC-251 Kindergarten Curriculum & Methods
EDUC-302 Teaching Thinking Skills
EDUC-316,317 Principles of Teaching
EDUC-350 Reading in the Content Area
EDUC-352 Developmental Reading
EDUC-380 Reading: Diagnostic & Remediation Tech.
EDUC-391 Reading Methods
EDUC-450 Supervised Teaching and Seminar

Engineering

ENGR-171 Introduction to Engineering Graphics

Health and Physical Education

PEI-154 Golf
PEI-177 Tennis

Language and Literature

LIT-231 World Literature
LIT-238 Major American Authors
SPAN-171,172,173 Elementary Spanish

Music

HUM-140 Introduction to the Humanities

Nursing

NSG-213 Physical Assessment

Psychology

PYCH-160 General Psychology
PYCH-261 Psychological Statistics

Science and Mathematics

BIO-100 Principles of Biology
BIO-101 Environmental Biology
GSCI-160 Earth and Space Science
GSCI-180 Introduction to Mathematics
GSCI-185 Precalculus

Social Sciences and History

GSS-100 Foundations of Social Science
GEO-351 World Regional Geography--Western Hemisphere
HIST-111 United States History
SOC-240 Marriage and the Family
HIST-321 Historical and Political Development of East Asia
SOC-375 Social Movements

Internships are also available in most major fields which require them.

Registration

The dates of registration for each session are listed in the college academic calendar. Early registration periods may be designated for currently enrolled students. Students are urged to register on the days provided. Nominal late registration fees are charged for registering late. Students who register early must notify the Academic Records Office if they do not return for the quarter for which they registered early.

Registration materials are distributed through intracampus mail prior to respective registration periods. These materials include a Class Registration Form (CRF), registration instructions, and class schedule for the quarter.

To register for courses, each student meets with an academic advisor to discuss career direction, course options, and class schedules. 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. Because of this, each student is encouraged to be very familiar with the course requirements of his or her chosen major.

To signify approval of the course selection for the upcoming quarter, the academic advisor signs the Class Registration Form. No Class Registration Forms can be accepted for registration without the signatures of the student's academic advisor and the student.

Each student submits the Class Registration Form signed by the academic advisor to the Academic Records Office or designated registration station. Course selections are checked against available openings and a final course schedule is confirmed.

To complete registration, the student must make financial arrangements for payment of the amount due on the Student Data Sheet. (See the financial section of the catalog for information concerning costs and payment plans.)

Changes in the course schedule may be made through the “drop-add” process. Forms for course changes are available in the Academic Records Office. Changes in a schedule caused by the cancellation of courses will not involve financial penalty.

Adding and Withdrawing from a Course

To add or drop courses, a student must complete a form provided by the Academic Records Office. The form is to 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. No courses may be added after the end of the first full calendar week without the approval of the academic vice president and faculty members teaching the courses.

Failure to properly drop a class will result in a grade of “Z”.

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

Week Course Is Dropped:	Action:
Before the end of the first calendar week	No record on transcript
Second full calendar week through fourth	“W” (withdrawn)
After the fourth week and before the week of final examinations	“WP” or “WF” (Withdrawn Passing or Withdrawn Failing)

Course changes are not complete until the Academic Records Office receives the completed drop/add form. The effective date of the course change is the date when the completed form is received by the Academic Records Office.

Refund information is listed in the Financial Information section of the catalog.

Auditing

Auditing involves attending and participating in a course without earning credit.

A course may be changed from credit to audit before the end of the first week of the quarter. Courses may be changed from audit to credit, with permission of the instructor, before the end of the first week of the quarter. A student may not test out of a course already audited.

Withdrawing from College

No student should leave Cedarville College without following proper withdrawal procedures. In withdrawing, a student must secure an official withdrawal form from the Academic Records Office and follow the procedures prescribed on the form. Refund requests should be submitted to the Business Office at least three days prior to withdrawing. The ID card must be returned to the Academic Records Office on the student’s last day on campus.

Transcripts of students who withdrew during an academic term will be marked as follows: withdrawal through the fourth week-“W”; withdrawal after the fourth week (but before the week of final examinations)-“WP” or “WF”.

Continuing at the College

The College assumes that a student will continue taking courses from quarter to quarter unless the student graduates, is asked to leave for academic or disciplinary reasons, or withdraws voluntarily. To assist in planning each academic term, the College asks each student to “preregister” for the upcoming academic term. This secures courses for the student and enables the College to make enrollment decisions for that term. A student who owes money to the College may not be permitted to register for future academic terms until the debt is satisfied.

A student enrolled in spring quarter preregisters for fall quarter courses before the end of the spring quarter. To retain these course selections and confirm the intention to enroll in the fall quarter, each student must submit a reservation deposit of \$250 by July 1. This deposit also reserves a place in college housing for single students under twenty-five years of age. This money is credited to the student’s account and may be used to help cover fall quarter expenses. Should the student decide to withdraw from the College after July 1, but before September 1, all but \$100 of this deposit is refundable. After September 1, none of the deposit is refundable.

A student who does not submit the continuing student reservation deposit by July 1, or make other special arrangements with the Student Services Office concerning intentions to continue as a student in the fall quarter, will be considered withdrawn. Any student who withdraws voluntarily or is involuntarily withdrawn must apply and be approved for readmission to continue as a student at the College. Readmission forms and information are available from the Admissions Office.

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Course Numbers and Designations

The course numbers are designed to be of help to the student in selecting courses at the appropriate level. The following system is used:

1. The first number indicates the year in which the course usually is taken. Freshmen normally take 100 level courses; sophomores, 100 level or 200 level courses; juniors, 200 level or 300 level courses; and seniors, 300 level or 400 level courses. Courses beyond the student's classification should be taken with the consent of the instructor and academic advisor.
2. The alphabetical prefixes in the course designations indicate content divisions within academic departments. For example, the prefix "BETH" indicates that the course is a theology course in the Department of Biblical Education.

The quarter that the course is offered is shown in italic letters following the course title as follows: A-Autumn; W-Winter; Sp-Spring; and Su-Summer. The number to the right of the course title is the credit given in quarter hours.

The College 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: 1994-95 is an even year.

Grading System

A This grade is given in recognition of excellent achievement. It is indicative of work superior in quality 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 This grade 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 This grade indicates average achievement and a satisfactory meeting of requirements.

D This grade reveals accomplishment that is inferior in quality and is generally unsatisfactory from the standpoint of course requirements. This is the lowest grade for which credit can be earned.

F This is a failing grade. It indicates very unsatisfactory work. No course credit is earned.

AU This mark is given when a course is audited. To receive this notation, the student must attend and participate in the course. No credit is earned.

CR The mark "CR" means that credit has been granted; it also applies to the "Credit or No Credit Program" where credit is received for satisfactory (average or above) performance in the course.

Credit in which a "CR" has been earned counts toward the total graduation requirements but is not used in the computation of grade point averages.

CE The mark "CE" signifies that credit for the course has been earned by an examination administered by the College or another recognized testing agency or program.

I An "I" signifying "incomplete" is a temporary grade given when a student is unable to complete the work for a course on time because of extraordinary circumstances, such as illness, emergency, or other reasonable cause. This temporary grade does not influence the student's grade point average. To be considered for an incomplete, the student must be passing the course and have completed the majority of the coursework. An incomplete should not be given merely because a student fails to complete all the course requirements on time. The instructor giving the incomplete will establish an appropriate completion date with the student. This date may extend to the end of the quarter following the one in which the course was taken. If the work is not completed by the designated date, the incomplete will be changed to an "F" and will be calculated as such in the student's grade point average.

INC This notation indicates a "permanent incomplete," a grade assigned in special situations by the faculty member with the approval of the academic vice president. This permanent grade does not influence the student's grade point average. To receive a permanent incomplete, the faculty member should submit the appropriate form to the academic vice president identifying the circumstances warranting this special grade. If a permanent incomplete is awarded, the grade may not be changed at a future date. To receive credit for the course, the student must again register for the course and complete the course requirements.

K The notation "K" signifies credit and accompanies courses transferred from other colleges or universities. It has no affect upon cumulative grade point average.

NC The mark "NC" means that no credit has been earned. Credit hours for which an "NC" has been earned are not used in the computation of grade point averages.

NP The mark "NP" is used to indicate that the student did not pass a course when credits do not count toward the graduation requirements. Basic English and Basic Mathematics are examples of such courses.

P The mark "P" is used to indicate that the student passed a course whose credits do not count toward graduation, like Basic English or Basic Mathematics.

W The mark "W" is used to indicate that the student withdrew from the course during the second, third, or fourth week.

WP The mark "WP" is used to indicate that the student is "passing" when a course is dropped following the fourth week and before the week of final examinations.

WF The "WF" is used after the fourth week of the quarter if the student is "failing" at the time of withdrawal. A "WF" is treated in the same manner as the "F" grade when figuring the grade point average.

Z The mark “Z” indicates that the student did not complete the course but did not officially withdraw. A “Z” is treated in the same manner as the “F” grade when figuring the grade point average.

Grade Points and Point Averages

Cedarville College uses the “four-point system” to determine academic averages.

Grade points are awarded as follows:

Each Quarter Hour	Grade Points
A	4.0
A-	3.7
B+	3.3
B	3.0
B-	2.7
C+	2.3
C	2.0
C-	1.7
D+	1.3
D	1.0
D-	.7
F	0.0

The grade point average is computed by dividing the total grade points earned by the total hours attempted.

Grades are issued at the end of each quarter. It is the responsibility of each student to discuss his or her academic achievement with his or her instructor.

Academic Progress, Warning, and Suspension

To satisfy the minimum graduation requirements, a student must earn a cumulative grade point average of 2.00. The minimum cumulative grade point average needed to maintain good academic standing is also 2.00.

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

Some academic programs have stricter academic progress requirements than are 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 Academic Vice President of their standing. First-quarter freshmen who do not meet the 1.00 average will not be academically suspended in order to provide some time for them to make the adjustment to college life.

Any student who does not meet the minimum cumulative grade point average required for academic probation will be suspended for at least one quarter. Any student on academic probation for two successive quarters who is not making satisfactory academic progress is subject to academic suspension. The academic vice president may make exceptions to the academic progress guidelines when

appropriate. However, a student receiving veterans benefits who is on academic probation for two successive quarters 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.

A student suspended for academic reasons may apply for readmission during any quarter in the regular academic year following the quarter of suspension.

Faculty members and other counselors are available to discuss student progress. The student experiencing academic difficulty should utilize these personnel 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 College. Academic warning may preclude involvement in certain college 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.

Academic progress influences the receiving of financial aid. Students receiving aid should check the financial aid section of the catalog to obtain the academic progress requirements that pertain to their particular aid programs.

Academic Progress Chart

Credit Attempted	Minimum Cumulative GPA for Academic Probation	Minimum Cumulative GPA for Academic Warning
0-30	1.00	1.50
31-60	1.30	1.65
61-90	1.50	1.80
91-135	1.70	1.90
136-170	1.90	
171+	1.95	

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Repeating Courses

Some new students experience difficulty adjusting to academic life at the College. Consequently, if a freshman (student with less than 42 credits) repeats a course in which a grade of “D” or “F” was earned before the end of the sophomore year (student with 42 to 89 credits), the cumulative grade point average will be recalculated using the second grade instead of the first. If a transfer student receives a grade of “D” or “F” in a course during the first quarter of study at the College and repeats that course within the succeeding three regular quarters, the cumulative grade point average will be recalculated using the second grade instead of the first. In both cases, however, the first grade will be retained on the transcript.

Any courses may be repeated. However, repeated courses are listed again on the transcript and used to calculate cumulative averages. The credit hours for each repeated course count only once toward the credits needed for graduation.

Credit/No Credit Program

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

The following guidelines govern involvement in the program:

1. A student of any classification may choose to earn Credit/No Credit or a letter grade in one quarter hour non-major physical education courses. This choice may be made at the end of the quarter.
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 90 quarter hours) in order to take an elective course on a Credit/No Credit basis. An elective is a course which 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) which may be taken under the Credit/No Credit designation is determined by the student’s cumulative grade point average:

2.0 - 2.49	one course
2.5 - 2.99	two courses
3.0 - 3.49	four courses
3.5 and above	six courses
6. A student taking an elective course who wishes to change from the Credit/No Credit designation to the regular grading designation must do so before the end of the fourth week of the quarter.
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 quarter.

Academic Honors

The Dean’s Honor List

Until final awards are announced at Commencement, the highest academic honor possible to attain at Cedarville College is to be included on the Dean’s Honor List. This list of high-ranking students is published at the end of each regular quarter. Lists are not published following the summer sessions.

The requirements for the Dean’s Honor List are as follows:

1. A student must have a 3.75 grade point average or higher for the quarter.
2. A student must have no grade for the quarter lower than a “B.”
3. A student must carry a minimum of 12 quarter 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 courses.
4. A student must complete every course being taken by the end of the quarter when grades are turned in by the faculty. Any grade of “incomplete” will preclude a student’s candidacy for the Dean’s Honor List.

The Dean’s List

Published at the end of each regular quarter, the Dean’s List is issued with the following requirements:

1. A student must maintain a 3.25 average for the quarter.
2. A student must be carrying at least 12 quarter 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 courses.
3. A student must complete every course being taken by the end of the quarter when grades are turned in by the faculty. Any grade of “incomplete” will preclude a student’s candidacy for the Dean’s List.

Graduation with Honors

Upon recommendation of the faculty, a student who earns a grade point average of 3.50 will be graduated “with honor”; one who earns a grade point average of 3.70 will be graduated “with high honor”; and one who earns a grade point average of 3.85 will be graduated “with highest honor.” A student must be in residence at least two full years (90 quarter hours) in order to qualify for graduation with honors.

Academic Awards

Alumni Scholarship and Grant Endowment Fund Awards Awarded to outstanding freshmen, sophomores, and juniors by academic department. Provided by the Alumni Association.

The Amstutz Management-Sales Award Granted to a deserving junior majoring in business administration. Provided by Mr. and Mrs. Myron E. Amstutz.

The Pat Yoder Amstutz Nursing Award Granted to a deserving junior majoring in nursing. Provided by Mr. and Mrs. Myron E. Amstutz.

Anderson Family Scholarship Fund Granted to a female student with a foreign language concentration and a 3.0 GPA. Provided by Mr. and Mrs. Robert J. Anderson.

The Arline Littleton Autio Award Given to a senior elementary education student who intends to pursue a career in public school education. Given by General and Mrs. Clyde Autio.

The John W. Bickett Alumni Scholarships Given to juniors and seniors preparing for pastoral or missionary service and planning to continue their education in seminary or language studies. Provided by Heritage Alumni.

The Boyd Accounting Award Presented annually on to a deserving junior in accounting.

The Alton R. Brown Psychology Award Given to two juniors majoring in psychology or behavioral science. Provided by the members of the Alton R. Brown family.

The Edmund Burke Award Awarded to a junior majoring in social science with a 3.5 GPA.

The Business Faculty Senior Scholar Awards Given to graduating seniors who have demonstrated exceptional scholarship and exemplary Christian, moral, and ethical character.

Cedarville College Christian Ministries Award Given to a deserving senior showing faithfulness and leadership in the area of Christian service.

CRC Press Chemistry Award Presented to the student with the highest average for the year in General Chemistry.

The Creation Research Awards Presented annually to outstanding seniors majoring in biology, chemistry, mathematics, and medical technology.

The David G. Canine Award Given to a graduating senior with a cumulative GPA of 3.0 or above who has been accepted at Dallas Theological Seminary. Established in memory of and gratitude for the ministry of David G. Canine.

The Irma M. Dodson Award Granted to a graduating senior in elementary education. Established out of gratitude for the Lord's enablement in all allowing Irma M. Dodson to serve 50 years in education.

The Erich W. Ebert Award Given to a senior secondary or elementary education student who has as his or her intent to pursue a career in Christian school education. Provided by General and Mrs. Clyde Autio in loving memory of and gratitude for the life and educational ministry of Erich W. Ebert.

The Austin Elmore Award Presented annually to a junior majoring in biology. Preference given to students demonstrating potential in botanical sciences. Established to honor Austin Elmore for 17 years of faithful ministry as a biology professor at Cedarville.

The Faculty Scholarship Trophy Given to the graduating senior with the highest cumulative grade point average. Eligibility must include 120 quarter hours taken at Cedarville College completed within nine regular quarters.

The Joiner Family Scholarship Given to a student on the forensics team who demonstrates success and leadership. Provided by Mr. and Mrs. Robert Joiner.

The George L. Lawlor Greek Award Given to the student having the highest average in Elementary and Intermediate Greek over five quarters.

The Dorothy Hilma Leininger Nursing Scholarship Granted to a full-time nursing student who is at least a sophomore, intends to pursue a career in missions, and demonstrates an exemplary Christian testimony. Established in honor of Dorothy Hilma Leininger.

The Edith Hart Milner Award Awarded to a deserving junior majoring in English. Provided by Dr. George S. Milner.

The Ruby Jeremiah Scholarship Awarded to a married woman who is a full-time junior or senior, has at least a 3.0 GPA, and has financial need. Must be active in Christian service and student life. Provided in honor of Mrs. Ruby Jeremiah.

The Kimberly Kerr Memorial Scholarship Granted to a qualified junior or senior nursing student who demonstrates financial need and scholastic achievement. Established in memory of Kimberly Kerr, class of 1975.

The John E. Kohl Music Trophy Granted to a deserving junior majoring in music. Provided by Robert Tombley.

The Lillian Kresge Award Given to a junior or senior nursing student based on demonstrated financial need and scholastic achievement. Established in memory of Lillian Kresge, a resident of Cedarville who devoted her life to a career as a Christian nurse.

The Miriam Maddox Speech Communication Scholarship Award Presented annually to a communication arts freshman, sophomore, or junior who exhibits high commitment to Christian education and excellence in speech communication.

The Ira C. Mast Award Presented to a graduating senior majoring in management and having at least a 3.0 GPA. Given in honor of Ira C. Mast.

The Clara Monzelle Milner Award Granted to a deserving junior majoring in teacher education. Provided by Dr. George S. Milner.

The Nehemiah Engineering Award Provided by Dr. and Mrs. Eugene Apple. Granted to an engineering student who demonstrates the balance of devotion to God and diligence of professional purpose that was exemplified in the life of Nehemiah.

The George S. Olive Company Award Presented to a junior accounting major with an overall GPA of 3.0 or higher and a GPA of 3.3 or higher in accounting. Recipient must demonstrate leadership abilities, be seeking a career in public accounting, and be open to practicing in the state of Indiana.

Oxford University Press Scofield Bible Award Awarded to the graduating senior Bible major having the highest GPA.

The Patterson College Chemistry Award Awarded to an outstanding junior chemistry major. Sponsored by the Dayton Section of the American Chemical Society.

The PSI Office Technology Award Awarded to a student majoring in Office Technology or Business Communications who demonstrates outstanding abilities in his/her field. Provided by the Springfield Chapter of Professional Secretaries International.

The President's Trophy Awarded to a graduating senior on the basis of scholastic ability, character, leadership, and sportsmanship.

The Marlin Rayburn Award Established in memory of Marlin Rayburn by Mrs. Ethel Rayburn Jeremiah. The recipient shall have earned a GPA of 3.0 or above and have demonstrated excellence in homiletics.

The Rietveld Fine Arts Award Given annually to the junior or senior demonstrating consistent and outstanding ability and development in one or more areas of the fine arts (music, drama, communication arts, and broadcasting). Established by Mr. and Mrs. Floyd Rietveld.

The Taylor Scholarship Award Granted to a full-time student(s) pursuing a degree in nursing and having completed the junior year. Established in honor of Ruel B. and M. Ethel Taylor by their children and grandchildren.

The Kristi Lynn Walborn Memorial Scholarship Given to a sophomore or junior music major with an emphasis in voice or in music education with vocal emphasis. Established in memory of Kristi Lynn Walborn.

The Wall Street Journal Award Awarded to an outstanding graduate in business administration.

The J. D. "Jack" Willetts Scholarship Award Given to a sophomore or junior who excels in preparation for a career in education. Given in memory of the former president of the Cedarville Alumni Association and member of the Class of 1958.

The Arthur Franklin Williams Award Granted to a graduating senior majoring in the field of biblical education.

The Dr. and Mrs. Duane R. Wood Family Award Granted to a full-time student who will be at least a sophomore with a 3.25 or higher GPA who has evidenced Christian character, leadership on campus, academic achievement, and varsity athletic performance.

42 Biblical Education

Purpose

The mission of the Department of Biblical Education is to facilitate the development of an undergraduate student's world and life view which is biblically based, theologically sound, and philosophically defensible. The department seeks to provide a biblical foundation for a liberal arts education which integrates faith, learning, and life by providing basic biblical and theological courses as part of the liberal arts core curriculum. The faculty endeavors to aid the student's understanding of the Christian faith through the development of proper principles of biblical interpretation, the exposure to theological propositions and biblical concepts, and the fostering of evangelism and discipleship. The department attempts to cultivate research and writing, stimulate the use of scholarly methods and attitudes, and to encourage individual scholarship.

To produce graduates prepared for vocational Christian ministries, and eligible for admission to graduate schools, the department offers major programs of study in comprehensive Bible (with emphases in general studies, Christian education/youth, missions, and pastoral studies), pre-seminary Bible education, international studies-missiology, and philosophy.

The department's curriculum has been developed to emphasize the entire spectrum of a biblical and theological education. The curriculum is integrated with the liberal arts through the general education requirements and opportunities for electives. The purpose is to provide the major with a biblical and liberal arts education and experience which will fit his or her personal ministry aspirations and skills. The curriculum is reviewed continuously to maintain its appropriateness.

Personal Requirements

Students planning to pursue careers in vocational ministries should possess an intense desire to study the Scriptures and seek to gain as much practical experience in ministries as possible, even before entering the College. Biblical education majors find the opportunities provided by the Christian ministries program to be excellent avenues for applying truths learned in the classroom and for developing skills useful for effective ministry.

Faculty

Jack Riggs, *Chairman*; Professor of Bible. Director of Institutional Research. *Education*: B.A., Taylor University, 1956; B.D., Grace Theological Seminary, 1959; Th.M., Grace Theological Seminary, 1963; Th.D., Dallas Theological Seminary, 1968; post-doctoral study, Institute of Holy Land Studies, (Jerusalem, Israel), 1987. At Cedarville since 1967.

James Bjornstad, Professor of Philosophy. *Education*: B.A., Northeastern Bible College, 1967; Th.B., Northeastern Bible College, 1967; M.R.E., New York Theological Seminary, 1969; all work completed for Ph.D except dissertation, New York University. At Cedarville since 1995.

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

Greg Couser, Assistant Professor of Bible. *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, President; 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.

David Drullinger, Associate Professor of Bible. *Education*: B.S., Western Baptist College, 1967; B.D., San Francisco Baptist Seminary, 1971; Th.M., Western Conservative Baptist Seminary, 1975; D.Min., Western Conservative Baptist Seminary, 1980. At Cedarville since 1989.

Floyd Elmore, Associate Professor of Bible. *Education*: Graduate, Pensacola Bible Institute, 1969; B.A., Cedarville College, 1977; Th.M., Dallas Theological Seminary, 1981; Th.D., Dallas Theological Seminary, 1990. At Cedarville since 1985.

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

Cheryl Fawcett, Associate Professor of Christian Education. *Education*: B.R.E., Baptist Bible College, 1975; M.A., Wheaton Graduate School, 1977; Ed.D., Trinity Evangelical Divinity School, 1991. At Cedarville since 1991.

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

Thomas Hutchison, Assistant Professor of Christian Education. *Education*: B.A., Cedarville College, 1980; M.Div., Grand Rapids Baptist Seminary, 1985; all work completed for Ph.D except dissertation, Marquette University. At Cedarville since 1995.

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

David Mills, Instructor of Philosophy. *Education*: B.S., Cedarville College, 1992; M.A., The Pennsylvania State University, 1994. At Cedarville since 1994.

David Warren, Associate Professor of Bible. *Education*: B.A., Cedarville College, 1964; Th.M., Dallas Theological Seminary, 1968; postgraduate study, Institute of Holy Land Studies, (Jerusalem, Israel), 1992. At Cedarville since 1980.

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

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

Career Opportunities

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

- Bible teacher
- camp director
- Christian education director
- missionary
- pastor
- philosopher
- writer
- youth pastor

Programs of Study

The Biblical Education Department offers the following programs:

Majors in:

- Comprehensive Bible-general studies
- Comprehensive Bible-Christian education/youth
- Comprehensive Bible-missions
- Comprehensive Bible-pastoral studies
- International Studies-missiology
- Philosophy
- Preseminary Bible

Minors in:

- Christian education
- Greek
- Philosophy and religion

Special Program:

- One-year Bible certificate



*Cheryl Fawcett, a nationally recognized youth specialist, recently coauthored *I Have a Question About God*, a book that helps children learn about God.*

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Comprehensive Bible Major

The purpose of the **comprehensive Bible major** is to provide an education for the person who upon graduation becomes a director of Christian education, a youth pastor or worker, a missionary candidate, an evangelist, or a pastor. Within this program, students can gain specific vocational emphases through course selection and supervised field experiences. Requirements vary and are based upon the emphasis desired and selected.

Four emphases are available:

- General Studies
- Christian Education/Youth
- Missions
- Pastoral Studies

Course requirements for **comprehensive Bible major-general studies emphasis** involve ninety quarter hours including:

BEGE-171,172,273,274,375,376 (Gen. educ. req.)	..... 24
Old Testament Studies	..... 10-15
New Testament Studies	..... 8-15
Philosophy	..... 10
Theology	..... 12-20
Practical Theology	..... 8-12
Christian Education	..... 8-12

Suggested electives:

CHMU-253 Song Leading	..... 2
CIS-100 Introduction to Computers	..... 2
COM-324 Interpersonal Communication	..... 3
FIN-273 Church Business Administration	..... 4
PYCH-160 General Psychology	..... 5
SOC-240 Marriage and Family	..... 5



Jack Riggs, chairman of the Bible Department, often writes adult Sunday school materials for Regular Baptist Press.

Comprehensive Bible Major Curriculum Summary

Proficiency requirements	..... 0-8
Comprehensive Bible major requirements	..... 90
Other General Education requirements	..... 52-72
Electives	..... 30-50
Total (minimum, not including proficiency)	..... 192

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in Comprehensive Bible-General Studies Emphasis

First year:

BEGE-171 The Christian Life	..... 4
BEGE-172 Introduction to Bible Study	..... 4
COM-110 Fundamentals of Speech	..... 5
ENG-110 English Composition I	..... 5
ENG-140 English Composition II	..... 5
GSS-100 Foundations of Social Science	..... 5
HUM-140 Introduction to the Humanities	..... 5
PEF-199 P.A.C.L.	..... 2
Biological science elective	..... 5
Christian education elective	..... 5
Physical education elective	..... 1
Total	..... 46

Second year:

BEGE-273 Old Testament Survey	..... 4
BEGE-274 New Testament Survey	..... 4
History elective	..... 4
Literature elective	..... 5
New Testament elective	..... 5
Old Testament elective	..... 5
Physical science elective	..... 5
Science elective	..... 5
Electives	..... 13
Total	..... 50

Third year:

BEGE-375 God and History	..... 4
BEGE-376 God and the Church	..... 4
BEPH-220 Introduction to Philosophy	..... 5
BEPH-225 Ethics	..... 5
SOC-240 Marriage and Family	..... 5
Bible elective	..... 4
Old Testament elective	..... 5
Theology elective	..... 4
Electives	..... 12
Total	..... 48

Fourth year:

BEBL-251,252,253 Elementary Greek	..... 15
BEPT-350 Homiletics	..... 5
BEPT-456 Advanced Homiletics	..... 4
Bible elective	..... 4
Christian Education elective	..... 3
New Testament elective	..... 3
Theology electives	..... 8
Electives	..... 6
Total	..... 48

Course requirements for the **comprehensive Bible major-Christian education/youth emphasis** involve ninety quarter hours including:

BEGE-171,172,273,274,375,376 (Gen. ed. req.)	24
Old Testament Studies	5-10
New Testament Studies	3-10
Philosophy	5
Theology	12-20
Christian Education, including:	41
BECE-268 Christian Education of Children	5
BECE-361 Organization and Administration of Christian Education	4
BECE-362 Christian Education of Youth	5
BECE-364 Principles of Bible Teaching	3
BECE-366 Christian Education of Adults	4
BECE-463 Methods of Bible Teaching	4
BECE-470 Internship	16

Suggested electives:

BEPT-343 Pastoral Counseling	3
CHMU-200 The Christian at Worship	2
CHMU-253 Song Leading	2
CIS-100 Introduction to Computers	2
EDUC-200 Audio Visual Methods	1
EDUC-230 Arts and Crafts in the Elementary School ...	2
EDUC-321 Philosophy of Education	3
PEE-283 Recreational Leadership	3
PEL-281 Introduction to Camping	3
PYCH-160 General Psychology	5
PYCH-366 Fundamentals of Counseling	5
PYCH-367 Group Dynamics	5
SOC-231 Juvenile Delinquency	4
SOC-240 Marriage and Family	5



Greg Couser, an experienced Bible teacher and scholar, is one of the many Bible professors who teach General Education Bible courses.

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for the Comprehensive Bible Major-Christian Education/Youth Emphasis	
<i>First Year:</i>	
BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
COM-110 Fundamentals of Speech	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSS-100 Foundations of Social Science	5
HUM-140 Introduction to the Humanities	5
PEF-199 P.A.C.L.	2
Biological science elective	5
Physical science elective	5
Physical education elective	1
Total	46
<i>Second Year:</i>	
BECE-268 Christian Education of Children	5
BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
BEPH-220 Introduction to Philosophy	5
History elective	4
Literature elective	5
Old Testament elective	5
Science elective	5
Electives	12
Total	49
<i>Third year:</i>	
BECE-361 Organization and Administration of of Christian Education	4
BECE-362 Christian Education of Youth	5
BECE-364 Principles of Bible Teaching	3
BEGE-375 God and History	4
BEGE-376 God and the Church	4
Bible elective	4
New Testament elective	3
Theology elective	4
Electives	18
Total	49
<i>Fourth year:</i>	
BECE-366 Christian Education of Adults	4
BECE-463 Methods of Bible Teaching	4
BECE-465 Internship	16
SOC-240 Marriage and Family	5
Bible elective	4
Theology electives	8
Electives	7
Total	48

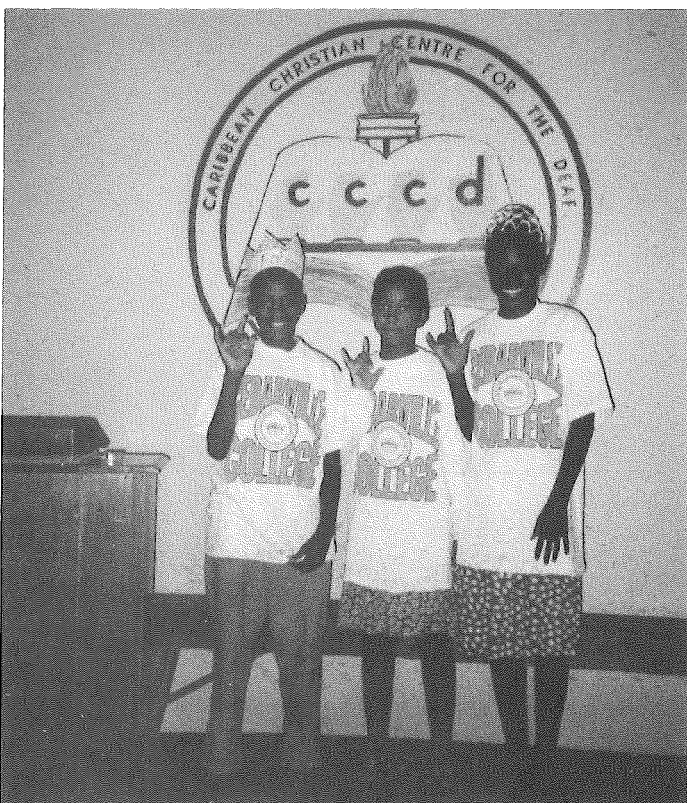
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Course requirements for the **comprehensive Bible major-missions emphasis** involve ninety quarter hours including:

BEGE-171,172,273,274,375,376 (Gen. ed. req.)	24
Christian Education	4-9
Old Testament Studies	5-10
New Testament Studies	7-10
Philosophy	5
Theology	12-20
Missions, including:	30
BEPH-226 Religion and Culture	5
BEPT-242 Missions Survey	4
BEPT-345 Contemporary World Missions	4
BEPT-346 The Missionary Process	3
BEPT-450 Missionary Internship	3-10
BEPT-490 Independent Study in Practical Theology	1-4

Suggested electives:

ANTH-180 Cultural Anthropology	5
CHMU-253 Song Leading	2
CIS-100 Introduction to Computers	2
COM-314 Intercultural Communication	4
COM-324 Interpersonal Communication	3
PYCH-160 General Psychology	5
SOC-334 Sociology of Religion	4
SOC-371 Family and Society	5
SOC-240 Marriage and Family	5



Missions students enjoy a wide variety of opportunities to gain actual international experience on a mission field. Cedarville work and teaching teams visit Jamaica regularly to invest in the lives of deaf students at the Caribbean Christian Centre for the Deaf.

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for the Comprehensive Missions Emphasis

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
COM-110 Fundamentals of Speech	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSS-100 Foundations of Social Science	5
HUM-140 Introduction to the Humanities	5
PEF-199 P.A.C.L.	2
Biological science elective	5
Physical science elective	5
Physical education elective	1
Total	46

Second year:

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
BEPH-220 Introduction to Philosophy	5
BEPH-226 Religion and Culture	5
BEPT-242 Missions Survey	4
History elective	4
Literature elective	5
Science elective	5
Electives	14
Total	50

Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
BEPT-345 Contemporary World Missions	4
BEPT-346 The Missionary Process	3
SOC-240 Marriage and Family	5
Bible elective	4
Christian Education elective	4
New Testament elective	4
Old Testament elective	5
Theology elective	4
Electives	7
Total	48

Fourth year:

BEEL-251,252,253 Elementary Greek	15
BEPT-450 Internship	10
BEPT-490 Independent Study in Practical Theology	1-4
Bible elective	4
New Testament elective	3
Theology electives	8
Electives	4
Total	48

International Studies-Missiology

The international studies major-missiology emphasis utilizes courses from several academic disciplines to prepare students for a variety of internationally-focused careers, including professional missionary service and “tentmaker” missions. The major is described in detail in the Interdisciplinary Studies section of the catalog.

Course requirements for the **comprehensive Bible major-pastoral studies emphasis** involve ninety quarter hours including:

BEGE-171,172,273,274,375,376 (Gen. ed. req.)	24
Christian Education	4-9
Old Testament Studies	5-10
New Testament Studies	5-10
Philosophy	5
Theology	12-20
Practical Theology, including	35
BEPT-242 Missions Survey	4
BEPT-342 Pastoral Ministry	3
BEPT-343 Pastoral Counseling	3
BEPT-350 Homiletics	5
BEPT-456 Advanced Homiletics	4
BEPT-440 Pastoral Internship	16

Suggested electives:

CHMU-200 The Christian at Worship	3
CHMU-253 Song Leading	2
CIS-100 Introduction to Computers	2
FIN-273 Church Business Administration	4
PYCH-160 General Psychology	5
PYCH-366 Fundamentals of Counseling	5
PYCH-367 Group Dynamics	5
SOC-240 Marriage and Family	5



David Drullinger, brings insights from his experience as a full-time pastor and interim pastor to the classroom.

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for the Comprehensive Bible Major-Pastoral Studies Emphasis

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
COM-110 Fundamentals of Speech	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSS-100 Foundations of Social Science	5
HUM-140 Introduction to the Humanities	5
PEF-199 P.A.C.L.	2
Biological science elective	5
Physical science elective	5
Physical education elective	1
Total	46

Second year:

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
BEPH-220 Introduction to Philosophy	5
BEPT-242 Missions Survey	4
Christian education elective	4
History elective	4
Literature elective	5
Science elective	5
Electives	14
Total	49

Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
BEPT-342 Pastoral Ministry	3
BEPT-343 Pastoral Counseling	3
BEPT-340 Homiletics	5
BEPT-456 Advanced Homiletics	4
SOC-240 Marriage and Family	4
Bible elective	5
Old Testament elective	5
Theology elective	4
Total	41

BEPT-440 Pastoral Internship 16
(usually taken during the summer after the junior year)

Fourth year:

BEBL-251,252,253 Elementary Greek	15
Bible elective	4
New Testament elective	3
Theology electives	8
Electives	10
Total	40

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Philosophy Major

The **philosophy major** is designed primarily for students anticipating graduate study in philosophy, theology, religion, or law. It serves to develop intellectual abilities important for life as a whole, beyond the knowledge and skills required for any particular profession. It cultivates the capacities and appetite for self-expression and reflection, for exchange and debate of ideas, for life long learning, and for dealing with problems for which there are no easy answers. Philosophy is applicable to any subject-matter and any human context, making it an ideal undergraduate major for those going on to specialized graduate work. Candidates for graduate study should consult graduate school catalogs to determine specific undergraduate requirements and adjust their programs at Cedarville College accordingly.

Course requirements for the **philosophy major** involve fifty-six quarter hours.

<i>Philosophy core requirements</i>	40
BEPH 220 Introduction to Philosophy	5
BEPH 221 History of Ancient and Medieval Philosophy	5
BEPH 222 History of Modern Philosophy	5
BEPH 225 Ethics	5
BEPH 226 Religion and Culture	5
BEPH 322 Logic	5
BEPH 325 Philosophy of Religion	5
BETH 432 Contemporary Theology	5
<i>Philosophy electives (select from)</i>	16
BEPH-303 Philosophy of Literature: Recent French Developments	3
BEPH-323 African Philosophy	3
BEPH-324 Epistemology	5
BEPH-328 Metaphysics	5
BETH-333 Christian Evidences and Apologetics	3
BEPH-420 Contemporary Philosophy	5
BEPH-425 Science, Religion, and Technology	3
BEPH-426 Philosophy of Art	3
BEPH-429 Topics in Philosophy	3
<i>Suggested electives:</i>	
BIO-340 Topics on Environmental Biology	5
COM-205 Philosophy of Communication	3
COM-210 Advanced Public Speaking	5
COM-315 Women in America	3
GSCI-210 Ethics of Human Reproduction	5
GSCI-220 Origins	5
HIST-201,202,203 History of Civilization	12
HIST-301 Renaissance Europe	4
HIST-302 Reformation Europe	4

HIST-404 History of Christianity: Pre-Reformation	4
LIT-335 Shakespeare	5
LIT-338 Contemporary British Literature	5
LIT-421 Literary Criticism	3
PYCH-160 General Psychology	5
PYCH-365 Psychology of Learning	4

Philosophy Major Curriculum Summary

Philosophy major requirements	56
Other General Education requirements	52-57
Electives	79-84
Total (minimum, not including proficiency)	192

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for the Philosophy Major

First Year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
BEPH-220 Introduction to Philosophy	5
COM-110 Fundamentals of Speech	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSS-100 Foundations of Social Science	5
HUM-140 Introduction to the Humanities	5
PEF-199 P.A.C.L.	2
Biological science elective	5
Physical education elective	1
Total	46

Second Year:

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
BEPH-221 History of Ancient and Medieval Philosophy	5
BEPH-222 History of Modern Philosophy	5
BEPH-225 Ethics	5
BEPH-226 Religion and Culture	5
HIST-201,202,203 History of Civilization	12
Physical science elective	5
Math elective	5
Total	50

Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
BEPH-322 Logic	5
BEPH-325 Philosophy of Religion	5
BEPH-324 Epistemology	5
BEPH-328 Metaphysics	5
Literature elective	5
Philosophy elective	3
Electives	10
Total	46

Fourth year:

BEPH-420 Contemporary Philosophy	5
BETH-432 Contemporary Theology	5
Philosophy elective	3
Electives	37
Total	50

Preseminary Bible Major

The **preseminary Bible major** is designed for students anticipating graduate work in preparation for vocational ministry. It provides a sufficient foundation in biblical subjects and the Greek language and enables the student to select elective courses from other departments which will enrich his personal and professional development. This is an ideal program for the person who believes that God is directing him into the pastoral, missionary, or teaching ministry after investing at least seven years in college and seminary preparation. Seminary candidates should also consult seminary catalogs to determine specific undergraduate requirements and adjust their programs at Cedarville College accordingly.

Course requirements for the **preseminary Bible major** involve fifty-eight quarter hours, including:

BEGE-171,172,273,274,375,376 (Gen. ed. req.)	..... 24
Christian Education	..... 3-5
Old Testament Studies	..... 5-10
New Testament Studies	..... 4-8
Philosophy	..... 10
Practical Theology	..... 3-5
Theology	..... 4-8

Additional biblical language requirements include:

BEBL-251,252,253 Elementary Greek	..... 15
BEBL-351,352,353 Intermediate Greek	..... 9

Suggested electives:

CHMU-200 The Christian at Worship	..... 3
CHMU-253 Song Leading	..... 2
CIS-100 Introduction to Computers	..... 2



Dan Estes, Assistant Academic Vice President and a Bible instructor, recently authored a textbook on Bible study entitled *Learning and Living God's Word: How to Study the Bible*.

COM-210 Advanced Public Speaking	..... 5
COM-324 Interpersonal Communication	..... 3
FIN-273 Church Business Administration	..... 4
HIST-201,202,203 History of Civilization	..... 12
PYCH-160 General Psychology	..... 5
PYCH-366 Fundamentals of Counseling	..... 5
PYCH-367 Group Dynamics	..... 5
SOC-240 Marriage and Family	..... 5

Preseminary Bible Major Curriculum Summary

Preseminary major requirements	..... 58
Other General Education requirements	..... 52-57
Greek	..... 24
Electives	..... 58-63
Total (minimum, not including proficiency)	..... 192

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for the Preseminary Bible Major

<i>First year:</i>	
BEGE-171 The Christian Life	..... 4
BEGE-172 Introduction to Bible Study	..... 4
COM-110 Fundamentals of Speech	..... 5
ENG-110 English Composition I	..... 5
ENG-140 English Composition II	..... 5
GSS-100 Foundations of Social Science	..... 5
HUM-140 Introduction to the Humanities	..... 5
PEF-199 P.A.C.L.	..... 2
Biological science elective	..... 5
Physical science elective	..... 5
P.E. elective	..... 1
Total	..... 46
<i>Second year:</i>	
BEGE-273 Old Testament Survey	..... 4
BEGE-274 New Testament Survey	..... 4
BEPH-220 Introduction to Philosophy	..... 5
HIST-201,202,203 History of Civilization	..... 12
Literature elective	..... 5
Old Testament elective	..... 5
Science elective	..... 5
Electives	..... 10
Total	..... 50
<i>Third year:</i>	
BEBL-251, 252, 253 Elementary Greek	..... 15
BEGE-375 God and History	..... 4
BEGE-376 God and the Church	..... 4
BEPH-322 Logic	..... 5
BEPH-225 Ethics	..... 5
Christian education elective	..... 3
New Testament elective	..... 4
Electives	..... 8
Total	..... 48
<i>Fourth year:</i>	
BEBL-351,352,353 Intermediate Greek	..... 9
SOC-240 Marriage and Family	..... 5
Bible elective	..... 5
Practical theology elective 3
Theology elective 4
Elective 20
Total 48

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Minors

The **Bible minor** required as a part of the General Education requirements involves twenty-four quarter hours of coursework including:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
BEGE-375 God and History	4
BEGE-376 God and the Church	4

The **Christian education minor** involves twenty-three quarter hours coursework for the student who wishes to become better equipped to serve in the educational function of the local church.

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

The **philosophy and religion minor** involves twenty-three quarter hours of coursework in philosophy and religion for the student who seeks a greater understanding of the nature and history of philosophical thinking and its impact on the religious life.

One-Year Bible Program

The **one-year Bible program** is designed to provide the student with greater Bible knowledge through intensive study of the Scriptures in a single academic year. The curriculum involves surveys of the entire Bible and the major Christian doctrines as well as specific book studies, practical theology courses, and the electives chosen by the student. Whether the student is a college freshman desiring a good foundation of Biblical knowledge in seeking the will of God, a student from an academic program not offered by a Christian college, or an individual just desiring personal enrichment through formal Bible study, the one-year Bible program will equip that individual with greater spiritual understanding so that he or she will become a more effective member of the body of Christ.

The course requirements for the one-year Bible program involve fifty-one quarter hours. The courses are typically taken in the following three-quarter sequence:

Fall Quarter

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
BENT-311 The Four Gospels	5
Bible elective	4
Total	17

Winter Quarter

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
Old Testament elective	5
Bible elective	5
Total	18

Spring Quarter

BEGE-375 God and History	4
BEGE-376 God and the Church	4
BENT-316 The Book of Revelation	3
Bible elective	5
Total	16



Bible students gain insights from the many outstanding speakers who frequent chapel. Dr. Warren Wiersbe, a prolific author and internationally-known Bible teacher, spoke during the 1994 Fall Bible Conference.

Course Descriptions

General Education Courses

Every student must take six Bible courses to meet the General Education requirements. These 24 quarter hours constitute a minor in Bible. They will also count toward the course requirements of any biblical education major. These courses may not be taken on an out of class basis or by correspondence study.

BEGE-171 The Christian Life--A,W,Sp,Su 4 hours

A foundational course designed to introduce the doctrines of man, sin, and salvation. Emphasis is given to the practical application of these doctrines to evangelism and Christian discipleship.

BEGE-172 Introduction to Bible Study--A,W,Sp,Su 4 hours

A survey of the doctrine of scripture considering revelation, inspiration, canonicity, and illumination. The development of independent Bible study skills will also be stressed.

BEGE-273 Old Testament Survey--A,W,Sp,Su 4 hours

A survey of the entire Old Testament, giving special attention to authorship, historical background, and the theme of each book. This study traces the history of the Hebrew nation from its origin to the time of Jesus Christ. Prerequisites: BEGE-171 The Christian Life, BEGE-172 Introduction to Bible Study.

BEGE-274 New Testament Survey--W,Sp,Su 4 hours

A survey of the entire New Testament including the historical background of the Inter-Testament period, giving special attention to authorship, content, main events, and the unfolding of God's redemptive purpose through the Lord Jesus Christ. Prerequisites: BEGE-171 The Christian Life, BEGE-172 Introduction to Bible Study.

BEGE-375 God and History--A,W,Sp,Su 4 hours

A survey of God's plans in history and in the future with attention given to the doctrines of God, Christ, angels, and last things.

Prerequisites: BEGE-273 Old Testament Survey and BEGE-274 New Testament Survey.

BEGE-376 God and the Church--A,W,Sp,Su 4 hours

A study of the doctrines of the Holy Spirit and the church. Emphasis is also given to the origin, mission and function of Baptist churches. Prerequisites: BEGE-273 Old Testament Survey, BEGE-274 New Testament Survey.

Departmental Courses

Biblical Languages

BEBL-251,252,253 Elementary Greek 5 hours each quarter

The basic elements of the Greek language. Careful attention is given to grammar, syntax, vocabulary, and the reading of selected portions of the Greek New Testament.

BEBL-254,255,256 Elementary Hebrew 3 hours each quarter

An introduction to the basic elements of biblical Hebrew. Attention is given to vocabulary, grammar, and the use of language tools.

BEBL-351,352,353 Intermediate Greek 3 hours each quarter

Detailed study of advanced Greek grammar, reading in the Greek New Testament, the application of advanced syntactical rules, and an introduction to exegesis. Prerequisite: BEBL-251,252,253 Elementary Greek.

BEBL-490 Independent Study in Biblical Language--A,W,Sp,Su 1-4 hours

The student will translate and/or exegete a scripture passage or investigate advanced grammar and syntax.

Biblical Studies - Old Testament

BEOT-311 Pentateuch--A 5 hours

A detailed study of the five books of Moses. Attention is given to the historical material of these books, to theological problems, and to practical and homiletic values. (Fee: \$25) (odd years)

BEOT-312 Historical Books I--W 5 hours

A study of the history of Israel from the entrance into Canaan until the end of the reign of Solomon. (odd years)

BEOT-313 Historical Books II--Sp 5 hours

A study of the history of Israel from the division of the kingdom of David-Solomon until the restoration after the exile. (odd years)

BEOT-314 Psalms--W 5 hours

An examination of the book of Psalms with special attention given to the various types of psalms and their application to life. (even years)

BEOT-315 Wisdom Literature--Sp 5 hours

An 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. (odd years)

BEOT-316 Major Prophets I--A 5 hours

A study of Isaiah, Jeremiah, and Lamentations. The ministry of the prophets to their own times is carefully considered. (even years)

BEOT-317 Major Prophets II--Sp 5 hours

A study of Ezekiel and Daniel. The ministry of the prophets to their own times is considered as well as their predictions, both fulfilled and unfulfilled. (even years)

BEOT-318 Minor Prophets--W 5 hours

A chronological study of the twelve minor prophets, their ministry in relation to Israel and other contemporary nations, and their practical message for today. (even years)

BEOT-490 Independent Study in Old Testament--A,W,Sp,Su 1-4 hours

The student will investigate a significant topic or a scripture passage of special interest with a view toward integration of knowledge.

Biblical Studies - New Testament

BENT-311 The Four Gospels--A 5 hours

A harmonistic, chronological study of the Gospels, setting forth the life and ministry of Jesus Christ from His incarnation to His ascension. (odd years)

BENT-312 The Book of Acts--W 3 hours

An analysis of the missionary outreach of the apostolic period with special emphasis upon transitional theological problems, the journeys of Paul, and the historical setting of the epistles. (odd years)

BENT-313 The Prison Epistles--W 4 hours

A detailed study of Ephesians, Philippians, Colossians, and Philemon including their historical setting and doctrinal distinctives. (even years)

BENT-314 The Thessalonian and Pastoral Epistles--Sp 4 hours

An exegesis of First and Second Thessalonians, First and Second Timothy, and Titus with special attention given to their background, eschatological features, and presentation of local church administration. (odd years)

BENT-315 The General Epistles--A 4 hours

An examination of James, First and Second Peter, the three Johannine epistles, and Jude with consideration placed upon their background, exposition on apostate teachers, and lessons on practical living. (even years)

BENT-316 The Book of Revelation--Sp 3 hours

A detailed exposition of this book with stress upon its literary structure, its exaltation of Christ, and its outline of future events.

BENT-411 Romans and Galatians--Sp 4 hours

An 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.

BENT-412 The Corinthian Epistles--Sp 4 hours

An exposition of First and Second Corinthians with attention given to their historical background, their teachings, and the integrity of Pauline apostleship. (odd years)

BENT-413 The Book of Hebrews--A 3 hours

An exposition of this book with stress upon the nature of Christ's priesthood, the typology of the Old Testament sacrificial system, and the superiority of Christianity. (even years)

BENT-490 Independent Study in New Testament--A,W,Sp,Su 1-4 hours

The student will investigate a significant topic or scripture passage of special interest with a view toward integration of knowledge.

52 Biblical Education

Christian Education

BECE-200 Christian Education Survey--A 5 hours

A survey of the multifaceted world of local church education for the pastor, missionary, seminary-bound student, or local church volunteer educator. This course may not be used toward the required hours for a Christian education/youth major.

BECE-268 Christian Education of Children--A 5 hours

Emphasis on the biblical philosophy of ministering to children from birth to grade six in the home and church, and the programs and methods used to effectively teach God's Word to this age group. (odd years)

BECE-350 Women's Communication for Ministry--A 5 hours

A survey of the basic principles which form the foundation of effective, biblical communication for women. The course will build on the inductive Bible study method, specific message preparation, and practical communication skills. Specific ministry communication assignments will include personal testimony, children's sermon, Bible study discussions, and devotionals. Prerequisites: BEGE-172 Introduction to Bible Study, COM-110 Fundamentals of Speech. (even years)

BECE-361 Organization and Administration of Christian Education--A 4 hours

The methods of organizing and administering the total educational program of the church. Consideration is given to the educational process, leadership education, and methods of counseling and supervision.

BECE-362 Christian Education of Youth--W 5 hours

Emphasis is placed on the characteristics of youth, the understanding of youth's problems, and their implications for the work of the church. Programs, leadership, materials, trends, and organization of youth work within and related to the church. (Fee: \$10)

BECE-364 Principles of Bible Teaching--A 3 hours

A study of the Biblical principles of teaching which provides a rationale for methodology.

BECE-366 Christian Education of Adults--Sp 4 hours

The presentation of the characteristics and needs of the adult, his worship, education, service, and recreation in the church and the home.

BECE-462 Seminar in Christian Education--W 3 hours

Trends and problems of the field are analyzed and defined by individual research and group conferences.

BECE-463 Methods of Bible Teaching--Sp 4 hours

An experimentation and application in the classroom of various methods of Bible study and teaching.

BECE-465 Internship in Christian Education 16 hours

Ten weeks in a local church gaining experience in the total educational program of the church, under the supervision of the Christian education faculty and the pastor and/or director of Christian education. Prerequisite: Bible faculty approval and 20 hours in Christian education.

BECE-490 Independent Study in Christian Education

--A,W,Sp,Su 1-4 hours

The student will investigate a significant topic or scripture passage of special interest with a view toward integration of knowledge.

Philosophy and Religion

BEPH-220 Introduction to Philosophy--A,W,Sp,Su 5 hours

A survey of the principal issues in Western philosophy covering such areas as epistemology, metaphysics, aesthetics, and the major systems of philosophy.

BEPH-221 History of Ancient and Medieval Philosophy--A

5 hours

A survey of men and movements in Greek and Christian philosophy from Thales to Aquinas. Selected, representative writings of the philosophers will be read. Prerequisite: BEPH-220 Introduction to Philosophy. (odd years)

BEPH-222 History of Modern Philosophy--W 5 hours

A study of the principal philosophers from Descartes through Nietzsche. The development of rationalism and empiricism with the Kantian synthesis and its results will be emphasized. Prerequisite: BEPH-220 Introduction to Philosophy. (odd years)

BEPH-303 Philosophy of Literature: Recent French Developments 3 hours

A course devoted to the reading and evaluation of selected twentieth century literature, with a focus on alienation. Special attention will be given to the protocols of reading and writing in the light of recent developments in French philosophy and American literary criticism, e.g. structuralism, post-structuralism, deconstruction, and post-modernism.

BEPH-225 Ethics--W,Sp 5 hours

A study and evaluation of the major theories of goodness, obligation, and motive; and the development of a consistent Christian theory of value and obligation.

BEPH-226 Religion and Culture--Sp 5 hours

An introduction to religious issues, themes, and alternatives as they emerge in the historical context of Eastern and Western culture.

BEPH-322 Logic--A 5 hours

A study of the principles of correct and fallacious reasoning involved in traditional logic and modern logic.

BEPH-323 African Philosophy--W 3 hours

A study of African belief systems with special attention given to morality and religion, concepts of selfhood, marriage, God, and aesthetics.

BEPH-324 Epistemology--A 5 hours

A study of the nature, sources, types, tests, and limits of human knowledge. Prerequisite: BEPH-220 Introduction to Philosophy. (even years)

BEPH-325 Philosophy of Religion--Sp 5 hours

An analysis of the major philosophical problems relating to religion as these have arisen in the modern intellectual milieu. Prerequisite: BEPH-220 Introduction to Philosophy. (even years)

BEPH-328 Metaphysics--W 5 hours

A 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: BEPH-220 Introduction to Philosophy. (even years)

BEPH-423 Contemporary Philosophy--Sp 5 hours

A survey of the more significant European and American philosophies of the 20th Century. Primary consideration will be given to existentialism, pragmatism, and analytic philosophies. Prerequisite: BEPH-220 Introduction to Philosophy. (odd years)

BEPH-425 Science, Religion, and Technology 3 hours

A 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.

BEPH-426 Philosophy of Art 3 hours

A study of the nature of art and aesthetic judgments. Topics include the concept of beauty, the work of art, the function of art, art and society, the analysis of a work of art, and criticism in the arts.

BEPH-429 Topics in Philosophy 3 hours

Various topics offered as interest may demand. Intended for majors in philosophy. Permission of instructor required for non-majors and minors.

BEPH-490 Independent Study in Philosophy--A,W,Sp,Su 1-4 hours

The student will investigate a significant topic of philosophy of special interest with a view toward integration of knowledge.

Practical Theology

BEPT-240 Personal Evangelism--Sp 4 hours

A study of the philosophy, principles, and methodology of personal evangelism. The course includes developing a personal witnessing methodology, understanding the current issues in evangelism, and learning to answer the difficult questions often asked in witnessing experiences. A one day evangelistic field trip is required. Prerequisite: BEGE-171 The Christian Life. (Fee: \$10)

BEPT-242 Missions Survey--A 4 hours

A survey of the history of missions from apostolic times correlated with a study of New Testament missionary principles and practices. The organization and policies of the GARBC approved agencies will be examined.

BEPT-342 Pastoral Ministry--Sp 3 hours

A consideration of the pastor and his ministry. The course includes a study of his personal life, study, and pastoral duties, including presiding over the ordinances, weddings, funerals, and church services. (odd years)

BEPT-343 Pastoral Counseling--Sp 3 hours

A consideration of the principles of pastoral counseling. Emphasis is placed on a study of contemporary personal problems and their scriptural solutions. (even years)

BEPT-345 Contemporary World Missions--W 4 hours

A study of the development, methods, and problems of Christian missions since World War II.

BEPT-346 The Missionary Process--Sp 3 hours

An examination of the various aspects involved in becoming a missionary, including such things as the missionary call, pre-candidature preparation, the selection of a mission board, the candidate screening process, appointment as a missionary, pre-field ministry, culture shock, crosscultural communication, evangelistic and church planting strategy.

BEPT-349 The Pastor's Wife 3 hours

A consideration of the unique position of a pastor's wife, her responsibilities, problems, and privileges. Practical suggestions from area pastors' wives, individual research, and group discussion will be explored.

BEPT-350 Homiletics--A 5 hours

An introductory course designed to develop the student's philosophy of preaching. Emphasis is placed on the preparation of expository sermons and practice in their delivery. Prerequisites: COM-110 Fundamentals of Speech, junior or senior status.

BEPT-440 Pastoral Internship--A,W,Sp,Su 16 hours

Ten weeks in a local church gaining experience in pastoral responsibilities under the supervision of Bible department faculty and/or the local pastor. Five hours will count toward the preseminary major. Prerequisite: Approval of the Bible faculty.

BEPT-450 Missionary Internship--Su 3-10 hours

Four to six weeks in a crosscultural context gaining experience in actual missions activity under the supervision of missions faculty and a qualified missionary. This program is open to students in various majors. Up to three hours may count toward the preseminary major. Prerequisites: Completion of at least two missions courses and approval of the Bible faculty.

BEPT-456 Advanced Homiletics--W 4 hours

An advanced study of sermon structure development and effective delivery. The course is designed to give the student practice in the outlining, writing, delivering, and evaluating of sermons for different types of preaching situations. Prerequisite: BEPT-350 Homiletics.

BEPT-490 Independent Study in Practical Theology--A,W,Sp,Su 1-4 hours

The student will investigate an area of pastoral ministry or missions, the latter including missions boards, methods, and places of service.

Theology

BETH-233 Bible Geography and Customs--A 5 hours

A geographical survey of the Bible lands with stress upon the topography and cultural distinctives in their historical context.

BETH-332 Biblical Interpretation--W 3 hours

A detailed study of the basic principles of Bible interpretation. (odd years)

BETH-333 Christian Evidences and Apologetics--A 3 hours

A study of the basis for and the nature of the evidences for Christianity. Stress is placed on the idea of biblical revelation and its use in the defense and confirmation of the gospel.

BETH-335 Bibliology and Theology Proper--W 4 hours

A study of bibliology, the doctrine of the scriptures, with emphasis upon its revelation, inspiration, canonicity, and illumination; and theology proper, the doctrine of the being of God, with attention given to His existence, attributes, trinitarian relationships, and decrees. (odd years)

BETH-336 Angelology and Anthropology--Sp 4 hours

A study of angelology, the doctrine of the unfallen angels, the fallen angels, and Satan; and anthropology, the doctrine of man, with stress on his creation, constitution, fall, and sinful condition. (odd years)

BETH-432 Contemporary Theology--Sp 5 hours

A critical study of traditions, trends, issues, and major thinkers in contemporary theology. Prerequisite: BEPH-220 Introduction to Philosophy.

BETH-437 Soteriology and Christology--A 4 hours

A 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. (even years)

BETH-438 Pneumatology and Ecclesiology--W 4 hours

A study of pneumatology, the doctrine of the person and work of the Holy Spirit; and ecclesiology, the doctrine of the church, with stress upon both the universal church and the local church. (even years)

BETH-439 Eschatology--Sp 4 hours

A study of eschatology, the doctrine of last things, with attention given to the rapture of the church, the tribulation, the millennium, the eternal state, and the distinctives of dispensationalism. (even years)

BETH-490 Independent Study in Theology--A,W,Sp,Su 1-4 hours

The student will investigate a significant topic of theology of special interest with a view toward integration of knowledge.

54 Business Administration

Purpose

The Department of Business Administration seeks to prepare Christian young people for a variety of careers and ministry opportunities in the competitive world of business and/or for graduate studies. The program offers a healthy combination of the liberal arts and professional skills in order to develop the intellectual capacity, ethical imagination, and service orientation which are essential to persons assuming leadership responsibilities within the business community. On this Biblically-integrated foundation, we construct academically sound business majors to prepare Christian business personnel for God-honoring vocations. We seek to develop a wide range of student competencies, including all the technical skills offered in leading schools of business.

The business curriculum has been carefully developed to emphasize the entire spectrum of business concerns in a balanced program that combines theory, principles, techniques, and practical applications to enhance graduates' employment opportunities or to provide a solid foundation for graduate studies.

The department seeks to build upon the fundamental Christian liberal arts foundation established in the general education requirements of the College to present a value-centered curriculum that applies Christian principles to the private enterprise system as well as other public and nonprofit economic systems. This is accomplished through a continuous curriculum review and a highly competent faculty who combine academic expertise with professional experience in industry.

Cedarville College is a member of the Association of Collegiate Business Schools and Programs.

Personal Requirements

Students will find that a college preparatory curriculum in high school provides the best preparation for study in the bachelor degree programs in the Department of Business Administration. This curriculum should include at least two years of mathematics. Three or four years of high school mathematics, including calculus, are recommended for students anticipating graduate study in business. No previous coursework in bookkeeping or accounting is necessary. Because of extensive computer utilization in the business curriculum, electives in computer programming or software packages may prove to be helpful.

Students pursuing the associate degree in office technology or the major in business communications technology will find high school coursework in keyboarding and speedwriting to be helpful. Students with excellent skills in these areas may waive courses in keyboarding, document formatting, and speedwriting.

Faculty

Sharon Johnson (Mr.), *Chairman*; Associate Professor of Management. *Education:* B.S., Florida State University, 1969; M.B.A. Florida State University, 1973; D.B.A., Florida State University, 1978. At Cedarville since 1993.

Richard Baldwin, Professor of Management. *Education:* B.S.E.E., Iowa State University, 1955; M.B.A., University of Dayton, 1968; L.L.B., LaSalle Correspondence University, 1973; Ph.D., The Ohio State University, 1987; President's Fellow, American Graduate College of International Management, Winterim, 1987. At Cedarville since 1975.

Clifford Fawcett, Professor of Management. *Education:* B.S.E.E., University of Maryland, 1958; M.B.A., American University, 1970; D.B.A., George Washington University, 1976. At Cedarville since 1983.

Jeffrey Fawcett, Assistant Professor of Marketing. *Education:* B.A., Cedarville College, 1982; M.B.A., University of Baltimore, 1986; all work completed for Ph.D. except dissertation, Cleveland State University. At Cedarville since 1987.

Charles Hartman, Assistant Professor of Accounting. *Education:* B.A., Michigan State University, 1984; M.B.A., Michigan State University, 1984; graduate study, University of Dayton School of Law, 1994. At Cedarville since 1989.

Marinus Hazen, Associate Professor of Finance. *Education:* B.B.A., Ohio University, 1963; M.B.A., Ohio University, 1964; C.P.A., State of Ohio, 1965; all work completed for Ph.D. except dissertation, Cleveland State University. At Cedarville since 1983.

Martha Johnson, Associate Professor of Office Technology. *Education:* B.A., University of Northern Iowa, 1975; M.A., University of Northern Iowa, 1978. Certified Professional Secretary, 1986. At Cedarville since 1983.

Betty Orme, Assistant Professor of Office Technology. *Education:* B.S., West Virginia Tech, 1970; M.S., Wright State University, 1991. At Cedarville since 1991.

William Ragle, Assistant Professor of Finance. *Education:* B.B.A., Stephen F. Austin State University, 1976; M.B.A., University of North Texas, 1988; all work completed for Ph.D. except dissertation, University of North Texas. At Cedarville since 1995.

David Rotman, Director of Computer Services; Assistant Professor of Computer 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.



Representatives of "Big Six" and regional accounting firms visit the campus to recruit Cedarville accounting graduates.

Galen Smith, Associate Professor of Economics. *Education:* B.A., Washburn University, 1966; M.S., Kansas State University, 1968; M.Div., Grace Theological Seminary, 1978; graduate study, Trinity Evangelical Divinity School, 1995. At Cedarville since 1981.

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

Kenneth St. Clair, Associate Professor of Business. *Education:* B.S., University of Illinois, 1956; C.P.A., State of Ohio, 1962; M.S., University of Illinois, 1963; graduate study, University of Nebraska, 1964-65; Southwestern Baptist Theological Seminary, 1986-87. At Cedarville since 1959.

Lesley Sweetser, Assistant Professor of Computer Information Systems. *Education:* B.A., State University of New York at Oswego, 1977; M.S., State University of New York at Albany, 1985. At Cedarville since 1994.

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

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

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

Programs of Study

The Department of Business Administration offers the following programs:

Majors in:

- Accounting
- Business communication technology with concentrations in:
 - Organizational communication
 - Professional writing
- Business education with teaching fields in:
 - Bookkeeping-basic business
 - Comprehensive business
- Computer information systems
- Finance
- International studies: global economics and international business
- Management with concentrations in:
 - Human resources management
 - Non-profit management
 - Operations management
 - Small business/entrepreneurship
- Marketing with concentrations in:
 - Advertising
 - Industrial marketing and sales
 - Marketing management
 - Nonprofit

Minors in:

- Business administration
- Christian ministries management
- Computer information systems
- Economics
- International business

Special Program:

- Office technology (associate of arts degree)

Career Opportunities

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

- accountant
- administrative assistant
- auditor
- banker
- business teacher
- church financial manager
- computer network manager
- controller
- financial analyst
- human resource manager
- marketing researcher
- office manager
- production manager
- programmer
- purchasing manager
- retail manager
- sales manager
- salesperson
- secretary
- securities broker

Admission and Degree Requirements

Although students in the Department of Business Administration are not required to apply for admission to the department, continuation is based upon performance in the core business requirements. Students entering their junior year may be reviewed for continuation by the department chairman.

Students must earn at least a 2.0 grade point average in the following set of sophomore courses:

- ACCT-211,212 Principles of Accounting
- BUS-211,212 Statistics
- ECON-233 Microeconomics
- ECON-234 Macroeconomics

Before enrolling in any 400-level Department of Business Administration course, students must have satisfactorily completed all 200-level Department of Business Administration courses required for their majors. To graduate with a major from the Department of Business Administration, students must earn at least a 2.0 cumulative average and at least a C- in all business administration requirements.

56 Business Administration

Accounting

The **accounting major** prepares students for careers in private, public, and corporate accounting as well as other business-related areas. The program satisfies the requirements of public accounting firms and prepares students to take the Certified Public Accounting examination.

Course requirements involve eighty quarter hours including:

<i>Business administration core requirements</i>	54
ACCT-211,212 Principles of Accounting	10
BUS-100 Business Prologue	1
BUS-211,212 Statistics	6
BUS-218 Business Law I	4
BUS-311 Decision Analysis	3
BUS-442 Business Seminar	3
BUS-499 Executive Development (3 quarters)	0
CIS-220 Computer Information Systems	3
ECON-233 Microeconomics	4
ECON-234 Macroeconomics	4
FIN-371 Financial Management of the Firm	4
MGMT-350 Prin. of Organization and Management	4
MRKT-360 Principles of Marketing	4
MGMT-451 Administrative Policy and Strategy	4
<i>Accounting requirements</i>	26
ACCT-311,312,313 Intermediate Accounting	9
ACCT-317 Cost Accounting	5
ACCT-411 Federal Income Taxes	4
ACCT-412 Auditing	4
ACCT-413 Advanced Accounting	4
<i>Additional required cognate:</i>	
*GSCI-190 Calculus for Business	5
*satisfies the General Education requirement in mathematics	
Accounting Major Curriculum Summary	
Proficiency requirements	0-8
Other General Education requirements	75-95
Accounting & business administration requirements	80
Required cognates	5
Electives	12-32
Total (minimum, not including proficiency)	192

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for the Accounting Major

<i>First year:</i>	
BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
BUS-100 Business Prologue	1
COM-110 Fundamentals of Speech	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSS-190 Foundations of Social Science	5
GSCI-190 Calculus for Business	5
HUM-140 Introduction to the Humanities	5
PEF-199 P.A.C.L.	2
Physical education elective	1
Science elective	5
Total	47
<i>Second Year:</i>	
ACCT-211,212 Principles of Accounting	10
BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
BUS-211,212 Statistics	6
BUS-218 Business Law I	4
CIS-220 C.I.S.	3
ECON-233 Microeconomics	4
ECON-234 Macroeconomics	4
History elective	5
Literature elective	5
Total	49
<i>Third year:</i>	
ACCT-311,312,313 Intermediate Accounting	9
ACCT-317 Cost Accounting	5
BEGE-375 God and History	4
BEGE-376 God and the Church	4
BUS-311 Decision Analysis	3
FIN-371 Financial Management	4
MGMT-350 Principles of Organization and Management	4
MRKT-360 Principles of Marketing	4
Electives	11
Total	48
<i>Fourth Year:</i>	
BUS-442 Business Seminar	3
BUS-499 Executive Development (3 quarters)	0
MGMT-451 Administrative Policy and Strategy	4
Accounting requirements	12
Humanities elective	4
Science elective	5
Social science elective	4
Electives	16
Total	48

Business Communication Technology

The **business communication technology major** prepares students for careers in the business services sector of the economy. Two concentrations, organizational communication and professional writing, are available to provide concentrated training in skills vital in the administrative support field.

Course requirements involve a minimum of ninety-six to ninety-eight quarter hours including seventy-four hours in business and office technology requirements and twenty-three to thirty hours in a concentration area.

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<i>Business administration core requirements</i>	38
ACCT-211,212 Principles of Accounting	10
BUS-100 Business Prologue	1
BUS-216 Business Communication	4
BUS-218 Business Law I	4
BUS-442 Business Seminar	3
BUS-499 Executive Development (3 quarters)	0
ECON-233,234 Micro and Macroeconomics	8
MGMT-350 Prin. of Organization and Management	4
MRKT-360 Principles of Marketing	4

<i>Office technology requirements</i>	35-39
O TEC-171 Speedwriting II	4
O TEC-183 Document Processing	4
O TEC-285 Records Management	3
O TEC-289 Internship	1-5
O TEC-290 Office Systems and Procedures I	4
O TEC-291 Word Processing	4
O TEC-292 Office Systems and Procedures II	3
O TEC-293 Information Processing	3
O TEC-295 Business Graphics and Design	3
O TEC-380 Desktop Publishing	3
O TEC-390 Office Systems Seminar	3

Area of concentration 23-30

The *organizational communication concentration* provides the student with insight into the complex, multi-dimensional systems of communication within an organization. Requirements involve twenty-three quarter hours including:

COM-223 Group Discussion	3
COM-323 Organizational Communication	3
COM-324 Interpersonal Communication	3
COM-325 Interviewing	3
MGMT-353 Human Resources Management	4
MGMT-355 Organizational Behavior	4
One course from the following:	3
COM-331 Communication in the Information Age ..	3
COM-406 Leadership	3
COM-461 Communication Ethics	3

The *professional writing concentration* focuses upon the development of written communication skills needed in organizations. Requirements involve a minimum of twenty-eight quarter hours including:

PWRT-210 Proofreading	3
PWRT-311 Style and Mechanics for Writers	4
PWRT-315 Public Relations Writing	5
PWRT-316 Technical Communication	5
O TEC-380 Desktop Publishing (O TEC elective)	3
(or PWRT-317 Graphic Design	5)
PWRT-413 Technical Editing	3
PWRT-414 Report Writing	5
*GSCI-184 College Algebra (or higher)	5
*satisfies the General Education requirement in mathematics	

Business Communication Technology Major Curriculum Summary

Proficiency requirements	0-8
Business Communication Technology requirements	73
Concentration requirements	23-30
Other General Education requirements	85
Electives	11
Total (minimum, not including proficiency)	192

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for the Business Communication Technology Major

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
BUS-100 Business Prologue	1
COM-110 Fundamentals of Speech	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSS-100 Foundations of Social Science	5
O TEC-171 Speedwriting II	4
O TEC-183 Document Processing	4
O TEC-285 Records Management	3
O TEC-291 Word Processing Concepts	4
Electives	8
Total	52

Second year:

ACCT-211,212 Principles of Accounting	10
BEGE-273 Old Testament Survey	4
BUS-216 Business Communications	4
HUM-140 Introduction to the Humanities	5
MGMT-350 Principles of Organization and Management	4
O TEC-290 Office Systems and Procedures I	4
O TEC-292 Office Systems and Procedures II	3
O TEC-293 Information Processing	3
O TEC-295 Business Graphics and Design	3
O TEC-380 Desktop Publishing	3
PEF-199 P.A.C.L.	2
Physical education elective	1
Total	46

Third year:

BEGE-274 New Testament Survey	4
BEGE-375 God and History	4
BUS-218 Business Law I	4
GSCI-184 College Algebra	5
O TEC-289 Internship	1
Concentration requirements	13
Biology elective	5
Humanities elective	4
Literature elective	5
Physical science elective	5
Total	50

Fourth year:

BEGE-376 God and the Church	4
BUS-442 Business Seminar	3
BUS-499 Executive Development (3 quarters)	0
ECON-233 Microeconomics	4
ECON-234 Macroeconomics	4
MRKT-360 Principles of Marketing	4
O TEC-390 Office Systems Seminar	3
Concentration requirements	10
Social science elective	4
History elective	5
Electives	3
Total	44

58 Business Administration

Business Education Major

The **business education major** prepares students to teach business at Christian and public high schools. Those who complete this curriculum as well as the secondary education requirements (listed in the Education Department section of the catalog) will be certified by the State of Ohio and the Association of Christian Schools International. Two business education options are available.

The **bookkeeping-basic business education major** provides basic preparation for teaching general business subjects at the secondary school level. Teaching specializations, each involving 16 or 18 quarter hours, may be selected in accounting, computer information systems, economics, finance, management, marketing, or office technology. A detailed listing of the specific courses required for each teaching specialization is located in the Department of Education section of the catalog.

Course requirements involve sixty-four to sixty-six quarter hours:

<i>Business core requirements</i>	48
ACCT-211,212 Principles of Accounting	10
BUS-100 Business Prologue	1
BUS-211,212 Statistics	6
BUS-216 Business Communications	4
BUS-218 Business Law I	4
BUS-499 Executive Development (3 quarters)	0
CIS-220 Computer Information Systems	3
*ECON-233 Microeconomics	4
*ECON-234 Macroeconomics	4
FIN-171 Personal Finance	4
(or FIN-371 Financial Management of the Firm	4)
MGMT-350 Principles of Management	4
MRKT-360 Principles of Marketing	4
<i>Teaching specialization</i>	16-19
(See the Education Department section of the catalog)	

Additional required cognates include:

PYCH-160 General Psychology	5
**GSCI-190 Calculus for Business	5
*satisfies a General Education requirement in social science	
**satisfies a General Education requirement in mathematics	

Bookkeeping Basic Business Education Major Curriculum Summary

Proficiency requirements	0-8
Other General Education requirements	72-92
Bookkeeping basic business education major requirements	66
Required cognates	10
Professional education requirements	47
Total (minimum, not including proficiency)	192-214

The **comprehensive business education major** provides basic preparation for teaching office technology-related business subjects at the secondary school level.

Course requirements involve eighty-one quarter hours including:

<i>Business core requirements</i>	48
ACCT-211,212 Principles of Accounting	10
BUS-100 Business Prologue	1
BUS-211,212 Statistics	6
BUS-216 Business Communications	4
BUS-218 Business Law I	4
BUS-499 Executive Development (3 quarters)	0
CIS-220 Computer Information Systems	3
(or OTEC-293 Information Processing	3)
*ECON-233 Microeconomics	4
*ECON-234 Macroeconomics	4
FIN-171 Personal Finance	4
(or FIN-371 Financial Management of the Firm	4)
MGMT-350 Principles of Management	4
MRKT-360 Principles of Marketing	4

<i>Comprehensive business education requirements</i>	33
OTEC-170,171 Speedwriting I,II	8
OTEC-182 Document Formatting	4
OTEC-183 Document Processing	4
OTEC-285 Records Management	3
OTEC-290 Office Systems and Procedures I	4
OTEC-291 Word Processing Concepts	4
OTEC-292 Office Systems and Procedures II	3
OTEC-295 Business Graphics and Design	3

Additional required cognates include:

PYCH-160 General Psychology	5
**GSCI-190 Calculus for Business	5
*satisfies a General Education requirement in social science	
**satisfies a General Education requirement in mathematics	

Comprehensive Business Education Major Curriculum Summary

Proficiency requirements	0-8
Other General Education requirements	72-92
Comprehensive business education major req.	81
Required cognates	10
Professional education requirements	47
Total (minimum, not including proficiency)	210-230

Computer Information Systems

The **computer information systems** major prepares students for careers in management information systems such as programmers, systems analysts, and MIS directors. The curriculum follows guidelines established by the Data Processing Management Association for the training of information system professionals.

Course requirements involve eighty quarter hours including:

<i>Business administration core requirements</i>	55
ACCT-211,212 Principles of Accounting	10
BUS-100 Business Prologue	1
BUS-211,212 Statistics	6
BUS-218 Business Law I	4
BUS-311 Decision Analysis	3
BUS-442 Business Seminar	3
BUS-499 Executive Development (3 quarters)	0
CIS-222 Structured Programming	4
ECON-233 Microeconomics	4
ECON-234 Macroeconomics	4
FIN-371 Financial Management of the Firm	4
MGMT-350 Prin. of Organization and Management	4
MGMT-451 Administrative Policy and Strategy	4
MRKT-360 Principles of Marketing	4
 <i>Computer information systems requirements</i>	 25
CIS-224 COBOL Programming	4
CIS-226 Modern Programming Tools	4
CIS-326 Systems Analysis	4
CIS-327 Systems Design	4
CIS-328 Data Base Development	4
CIS-421 Software Development	3
CIS-200,300,400 Elective	2

Additional required cognate:

*GSCI-190 Calculus for Business	5
*satisfies the General Education requirement in mathematics.	

Computer Information Systems Major Curriculum Summary

Proficiency requirements	0-8
Other General Education requirements	75-95
CIS and business administration requirements	80
Required cognates	5
Electives	12-32
Total (minimum, not including proficiency)	192

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for the Computer Information Systems Major

First year:

BUS-100 Business Prologue	1
BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
CIS-222 Structured Programming	4
COM-110 Fundamentals of Speech	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSCI-190 Calculus for Business	5
GSS-100 Foundations of Social Science	5
HUM-140 Introduction to the Humanities	5
PEF-199 P.A.C.L.	2
Social science elective	4
Total	49

Second year:

ACCT-211,212 Principles of Accounting	10
BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
BUS-218 Business Law	4
BUS-211,212 Statistics	6
CIS-224,225 COBOL Programming	8
Physical education elective	1
Science elective	5
Electives	6
Total	48

Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
BUS-311 Decision Analysis	3
CIS-326 Systems Analysis	4
CIS-327 Systems Design	4
CIS-328 Database Development	4
ECON-233 Microeconomics	4
ECON-234 Macroeconomics	4
FIN-371 Financial Management of the Firm	4
MGMT-350 Principles of Organization and Management	4
MRKT-360 Principles of Marketing	4
Science elective	5
Total	48

Fourth year:

BUS-442 Business Seminar	3
BUS-499 Executive Development (3 quarters)	0
CIS-421 Software Development	3
MGMT-451 Administrative Policy and Strategy	4
CIS elective	2
History elective	5
Humanities elective	4
Literature elective	5
Science elective	5
Electives	16
Total	47

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Finance

The **finance major** prepares students for careers as financial analysts, security analysts, financial planners, or account executives within the banking, insurance, securities industry, or other commercial concerns.

Course requirements involve eighty quarter hours:

<i>Business administration core requirements</i>	54
ACCT-211,212 Principles of Accounting	10
BUS-100 Business Prologue	1
BUS-211,212 Statistics	6
BUS-218 Business Law I	4
BUS-311 Decision Analysis	3
BUS-442 Business Seminar	3
BUS-499 Executive Development (3 quarters)	0
CIS-220 Computer Information Systems	3
ECON-233 Microeconomics	4
ECON-234 Macroeconomics	4
FIN-371 Financial Management of the Firm	4
MGMT-350 Prin. of Organization and Management	4
MGMT-451 Administrative Policy and Strategy	4
MRKT-360 Principles of Marketing	4
<i>Finance requirements</i>	26
ACCT-311,312 Intermediate Accounting	6
FIN-331 International Money and Capital Markets	4
FIN-373 Investments	4
FIN-472 Business Valuation	4
300 and 400-level Finance electives	8
<i>Additional required cognate:</i>	
*GSCI-190 Calculus for Business	5

*satisfies the General Education requirement in mathematics

International Studies--Global Economics and International Business

The global economics and international business program prepares students for careers in international business. Offered as a part of the College's international studies program, the major is described in detail in the interdisciplinary studies section of the catalog.

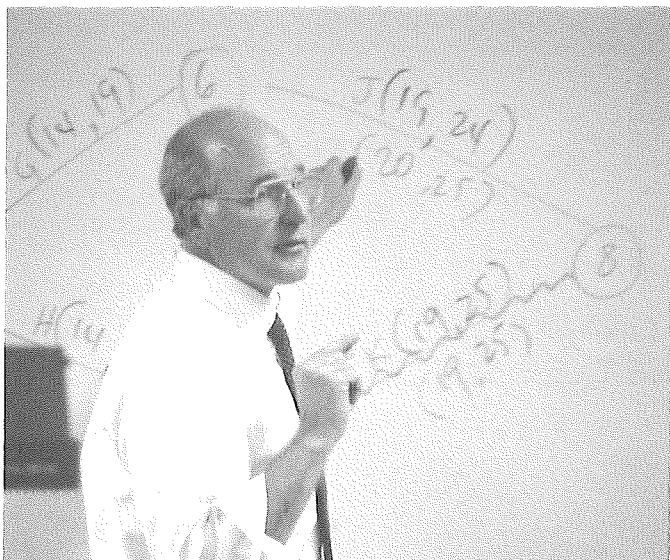
Management

The **management major** provides a broad business background for careers in human resources, operations, and production management within the government and in manufacturing, retailing, financial, and service industries. Students may select one of four concentrations: operations management, human resources management, small business/entrepreneurship, and non-profit management.

Course requirements involve eighty quarter hours including:

<i>Business administration core requirements</i>	54
ACCT-211,212 Principles of Accounting	10
BUS-100 Business Prologue	1
BUS-211,212 Statistics	6
BUS-218 Business Law I	4
BUS-311 Decision Analysis	3
BUS-442 Business Seminar	3
BUS-499 Executive Development (3 quarters)	0
CIS-220 Computer Information Systems	3
ECON-233 Microeconomics	4
ECON-234 Macroeconomics	4
FIN-371 Financial Management of the Firm	4
MGMT-350 Prin. of Organization and Management	4
MGMT-451 Administrative Policy and Strategy	4
MRKT-360 Principles of Marketing	4
<i>Management requirements</i>	26
MGMT-352 Production and Operations Management	4
MGMT-355 Organizational Behavior	4
Concentration requirements	18
<i>Additional required cognate:</i>	
*GSCI-190 Calculus for Business	5

*satisfies the General Education requirement in mathematics



The department encourages every business major to develop good quantitative skills by requiring specific courses in the core requirements. Ron Walker teaches many of the statistics and management science courses.

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The human resources management concentration

prepares students for positions as human resource directors. Course requirements include:

MGMT-353 Human Resources Management	4
MGMT-453 Industrial Relations Management	4
One course from recommended electives	3-4
<i>Business or these recommended electives</i>	6-7
COM-314 Intercultural Communication	4
COM-323 Organizational Communication	3
COM-325 Interviewing	3
PYCH-364 Industrial Psychology	4
PYCH-372 Psychology of Personality	4

The **non-profit management concentration** prepares students for management positions in the non-profit sector of the economy. Course requirements include:

CIS-223 Microcomputer Applications	3
ECON-313 Government and Business	4
MRKT-368 Non-Profit Marketing	4
<i>Business or these recommended electives</i>	7
ECON-339 Public Finance	4
FIN-273 Church Business Administration	4
MGMT-353 Human Resources Management	4
PUAD-161 Introduction to Public Administration	4

The **operations management concentration** prepares students for positions in production, service industries, or industrial management. Course requirements include:

MGMT-354 Management Science	4
MGMT-452 Purchasing and Materials Management	4
MGMT-453 Industrial Relations Management	4
<i>Business or these recommended electives</i>	6
ACCT-317 Cost Accounting	5
ECON-337 Labor Economics	4
MRKT-367 Industrial Marketing	4
PYCH-364 Industrial Psychology	4

The **small business/entrepreneurship concentration** provides the aspiring entrepreneur with the management orientation needed to survive the challenges of owning and operating a business. Course requirements include:

CIS-223 Microcomputer Applications	3
MGMT-351 Small Business Management	4
MGMT-353 Human Resources Management	4
<i>Business or these recommended electives</i>	7
ACCT-411 Federal Income Taxes	4
ECON-313 Government and Business	4
MRKT-365 Consumer Behavior	4
MRKT-460 Marketing Management	4



Contemporary computer technology applied to case study assignments helps students develop important presentation skills.

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Marketing

The **marketing major** prepares students for career opportunities in advertising, marketing management, marketing research and sales with retailers, manufacturers, financial institutions, and nonprofit organizations.

Course requirements involve eighty quarter hours including:

<i>Business administration core requirements</i>	54
ACCT-211,212 Principles of Accounting	10
BUS-100 Business Prologue	1
BUS-211,212 Statistics	6
BUS-218 Business Law I	4
BUS-311 Decision Analysis	3
BUS-442 Business Seminar	3
BUS-499 Executive Development (3 quarters)	0
CIS-220 Computer Information Systems	3
ECON-233 Microeconomics	4
ECON-234 Macroeconomics	4
FIN-371 Financial Management of the Firm	4
MGMT-350 Prin. of Organization and Management	4
MGMT-451 Administrative Policy and Strategy	4
MRKT-360 Principles of Marketing	4
<i>Marketing requirements</i>	26
MRKT-363 Marketing Research	4
MRKT-461 Marketing Strategy	4
Concentration requirements	18

Additional required cognate:

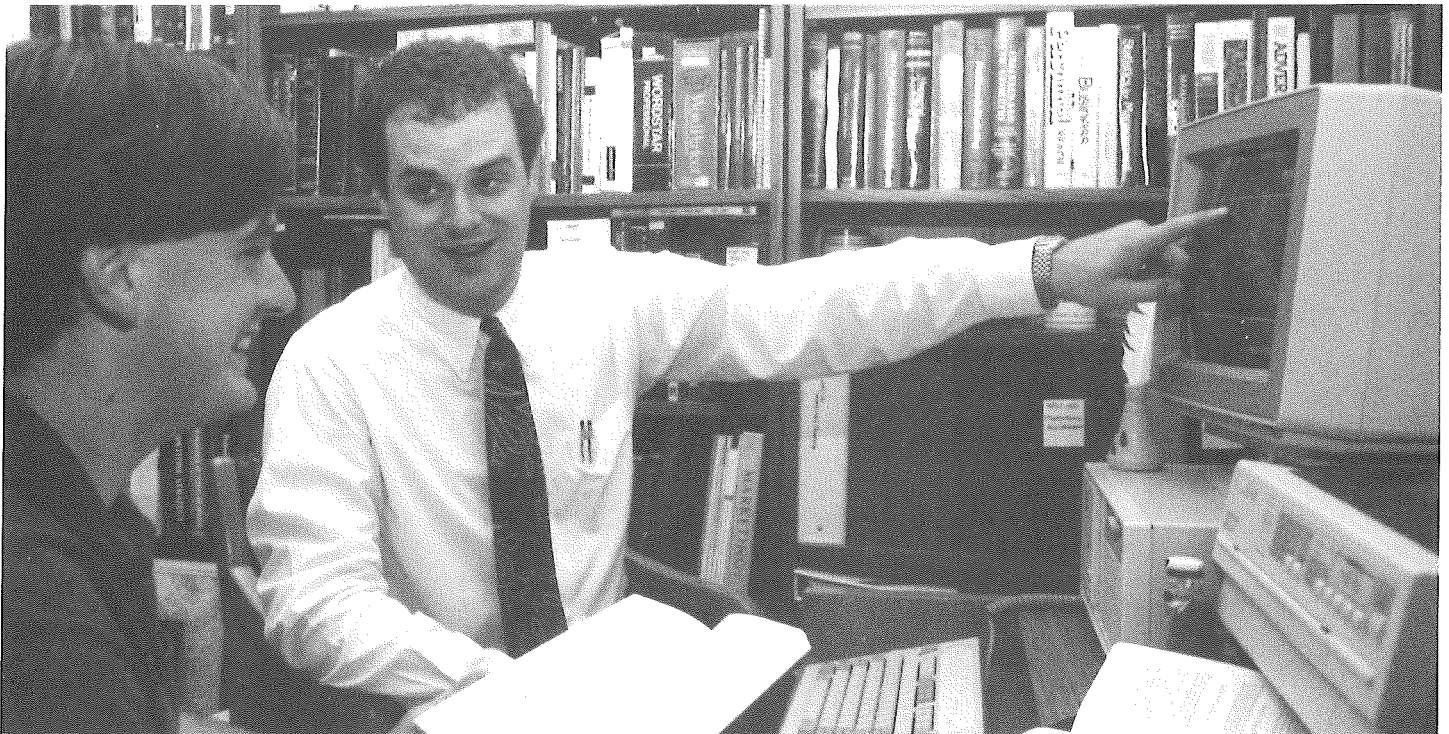
*GSCI-190 Calculus for Business	5
*satisfies the General Education requirement in mathematics	

The **advertising concentration** is designed to give the student a broad background in the fundamentals of advertising and allow them to begin to explore some of the more technical areas involved. Course requirements include:

MRKT-365 Consumer Behavior	4
MRKT-366 Principles of Advertising	4
RTV-331 Broadcast Advertising and Sales	4
<i>Business or these recommended electives</i>	6
OTEC-380 Desktop Publishing	3
PWRT-311 Style and Mechanics for Writers	4
PWRT-315 Public Relations Writing	5
RTV-223 Introduction to Photography	3

The **industrial marketing and sales concentration** prepares students for employment in business to business marketing as well as careers in sales and sales management. Course requirements include:

MRKT-361 Sales Management	4
MRKT-366 Principles of Advertising	4
MRKT-367 Industrial Marketing	4
<i>Business or these recommended electives</i>	6
COM-200 Persuasive Theory	5
MGMT-355 Organizational Behavior	4
MGMT-452 Purchasing and Materials Management	4



Cedarville's extensive computer resources enable professors to integrate important software programs into their courses. Marketing professor Jeff Fawcett is pictured here explaining a marketing management software package.

The **marketing management concentration** prepares students to take positions in marketing training programs as well as graduate study in marketing.

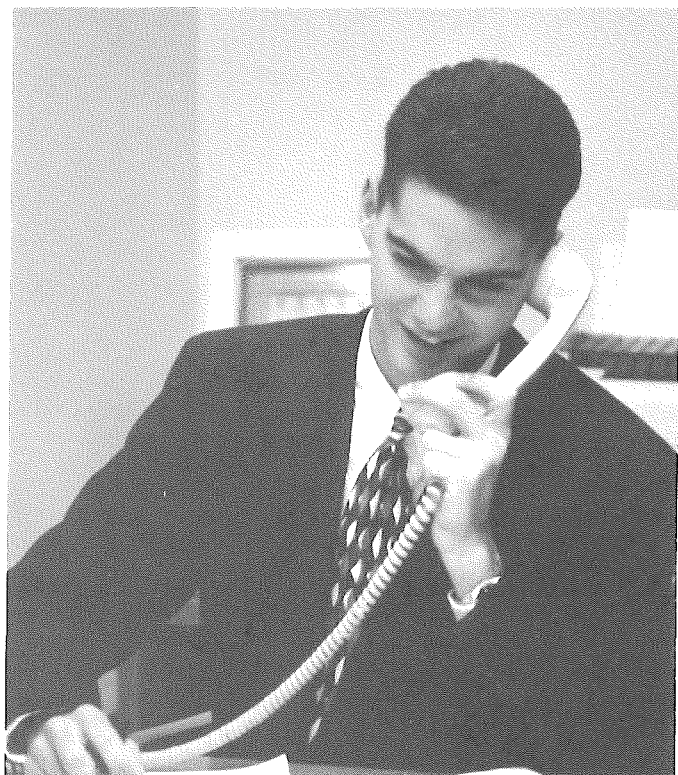
Course requirements include:

MRKT-365 Consumer Behavior	4
MRKT-460 Marketing Management	4
MRKT-462 International Marketing	4
<i>Business or these recommended electives</i>	6
MRKT-361 Sales Management	4
MRKT-366 Principles of Advertising	4
MRKT-367 Industrial Marketing	4
MRKT-368 Nonprofit Marketing	4

The **nonprofit concentration** is designed to give students an introduction to the methods of marketing in organizations that are not driven by the profit motive of most major corporations. Emphasis is placed on internal marketing as well as marketing to the external publics of nonprofits.

Course requirements include:

MGMT-355 Organizational Behavior	4
MRKT-365 Consumer Behavior	4
MRKT-368 Nonprofit Marketing	4
<i>Business or these recommended electives</i>	6
CIS-223 Microcomputer Applications	3
ECON-313 Government and Business	4
PUAD-161 Introduction to Public Administration	4
PWRT-315 Public Relations Writing	5



Students find that internships provide excellent ways to gain experience. Senior finance major Chad Eder served as a junior broker at PaineWebber, Inc. in Dayton, Ohio during the summer of 1995.

Finance, Management, and Marketing Majors Curriculum Summary

Proficiency requirements	0-8
Other General Education requirements	75-95
Business administration core requirements	54
Finance, management, or marketing major req	26
Required cognate	5
Electives	12-32
Total (minimum, not including proficiency)	192

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for the Finance, Management, and Marketing Majors

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
BUS-100 Business Prologue	1
COM-110 Fundamentals of Speech	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
HUM-140 Introduction to the Humanities	5
GSS-100 Foundations of Social Science	5
GSCI-190 Calculus for Business	5
PEF-199 P.A.C.L.	2
History elective	5
Physical education elective	1
Total	47

Second year:

ACCT-211,212 Principles of Accounting	10
BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
BUS-211,212 Statistics	6
BUS-218 Business Law I	4
CIS-220 Computer Information Systems	3
ECON-233 Microeconomics	4
ECON-234 Macroeconomics	4
Literature elective	5
Science elective	5
Total	49

Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
BUS-311 Decision Analysis	3
FIN-371 Financial Management of the Firm	4
MGMT-350 Prin. of Organization and Management	4
MRKT-360 Principles of Marketing	4
Major requirements	8
Social science elective	4
Electives	13
Total	48

Fourth year:

BUS-442 Business Seminar	3
BUS-499 Executive Development (3 quarters)	0
MGMT-451 Administrative Policy and Strategy	4
Business electives	6
Humanities elective	4
Major requirements	12
Science elective	5
Electives	14
Total	48

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Minors

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

Course requirements for the **minor in business administration** involve twenty-five quarter hours including:

ACCT-211 Principles of Accounting	5
MGMT-350 Prin. of Organization and Management	4
MRKT-360 Principles of Marketing	4
200,300, and 400-level Electives in business	12

Course requirements for the **minor in Christian ministries management** involve twenty-four quarter hours including:

ACCT-211 Principles of Accounting	5
CIS-223 Microcomputer Applications	3
FIN-273 Church Business Administration	4
MGMT-350 Prin. of Organization and Management	4
MGMT-353 Human Resource Management	4
MRKT-368 Nonprofit Marketing	4

Course requirements for the **minor in computer information systems** involve twenty-five quarter hours including:

ACCT-211 Principles of Accounting	5
MGMT-350 Prin. of Organization and Management	4
MRKT-360 Principles of Marketing	4
200, 300, and 400-level CIS electives	12

(may also take ENGR-221 Fortran Programming or ENGR-280 "C" Programming to satisfy these electives)

Course requirements for the **minor in economics** involve twenty-four quarter hours including:

ECON-233 Microeconomics	4
ECON-234 Macroeconomics	4
ECON-331 International Money & Capital Markets	4
ECON-335 Comparative Economic Systems	4
300 and 400-level electives in economics	8

Course requirements for the **minor in international business for the business major** involve twenty-four hours including:

BUS-291 International Business	3
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At least 12 hours from:

ECON-335 Comparative Economic Systems	4
ECON-336 International Trade and Economics	4
MGMT-357 International Management	4
MRKT-462 International Marketing	4

At least 5 hours from:

ANTH-180 Cultural Anthropology	5
BEPH-226 Religion and Culture	5
COM-314 Intercultural Communication	4
POLS-365 International Relations	5

Course requirements for the **minor in international business for the non-business major** involve twenty-seven hours including:

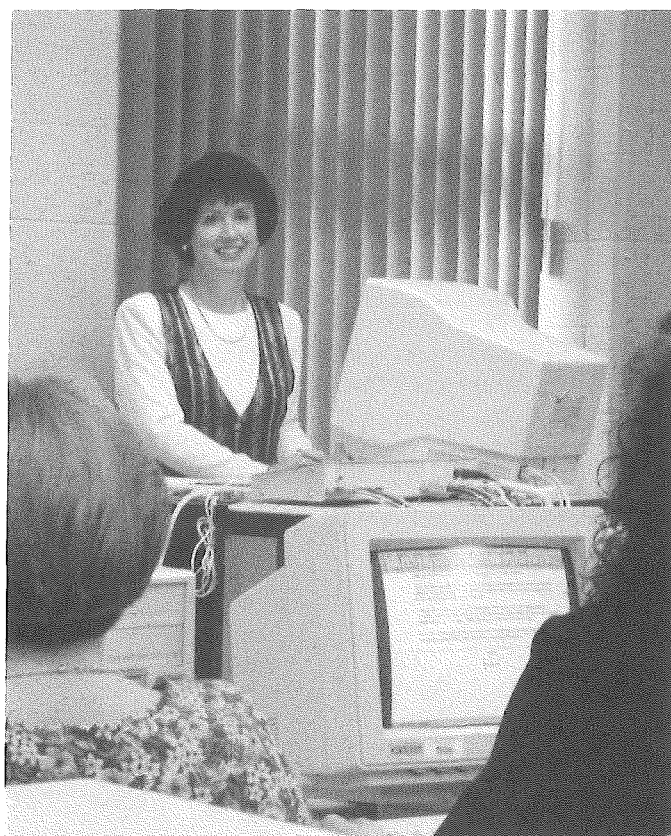
BUS-291 International Business	3
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At least 8 hours from:

ECON-233 Microeconomics	4
ECON-234 Macroeconomics	4
MGMT-350 Principles of Management	4
MRKT-360 Principles of Marketing	4

At least 8 hours from:

ECON-335 Comparative Economic Systems	4
ECON-336 International Trade and Economics	4
MGMT-357 International Management	4
MRKT-462 International Marketing	4



Office technology students enjoy extensive interaction with their professors throughout the program.

Office Technology

The **office technology program** prepares students for secretarial or office management positions in a variety of business, legal, and medical settings. This two-year program leads to the associate of arts degree. The credits earned in this program may be applied toward a bachelors degree should a student desire to continue after earning the associate degree.

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Course requirements involve ninety-five quarter hours including:

<i>Bible</i>	12
BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
BEGE-376 God and the Church	4
<i>General Education</i>	30
COM-110 Fundamentals of Speech	5
COM-324 Interpersonal Communication	3
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSS-100 Foundations of Social Science	5
HUM-140 Introduction to the Humanities	5
(or a science or mathematics elective	5)
PEF-199 Physical Activity and the Christian Life	2
<i>Business Administration</i>	18
ACCT-211 Principles of Accounting I	5
BUS-100 Business Prologue	1
BUS-216 Business Communications	4
MGMT-350 Prin. of Organization and Management	4
MRKT-360 Principles of Marketing	4
(or BUS-218 Business Law I	4)
(or ECON-234 Macroeconomics	4)
<i>Office Technology</i>	35-39
OTEC-171 Speedwriting II	4
OTEC-183 Document Processing	4
OTEC-285 Records Management	3
OTEC-289 Internship	1-5
OTEC-290 Office Systems and Procedures I	4
OTEC-291 Word Processing	4
OTEC-292 Office Systems and Procedures II	3
OTEC-293 Information Processing	3
OTEC-295 Business Graphics and Design	3
OTEC-380 Desktop Publishing	3
OTEC-390 Office Systems Seminar	3

Office Technology Course Descriptions

OTEC-170 Speedwriting I--W	4 hours
Abbreviated writing system designed to give the student a quick and easy method of writing in a short period of time. Prerequisite: OTEC-180 Keyboarding. (Fee: \$30)	
OTEC-171 Speedwriting II--Sp	4 hours
Advanced transcription procedures that allow the student who has previously learned the principles to transcribe at a high level of proficiency. Prerequisites: OTEC-182 Document Formatting, OTEC-170 Speedwriting I. (Fee: \$30)	
OTEC-180 Keyboarding--A	2 hours
Designed for the student to become more efficient in operating computer terminals and electronic keyboards. Focuses on developing speed, accuracy, and proofreading skills. (Credit/No Credit) (Fee: \$20)	
OTEC-182 Document Formatting--W	4 hours
Instruction and practice in typing forms of office communication. Emphasis is placed upon developing production speed and accuracy and composing and proofreading skills. Prerequisite: OTEC-180 Keyboarding or 40 words per minute. (Fee: \$30)	

OTEC-183 Document Processing--Sp	4 hours
Practice in advanced production jobs using more realistic business situations. Simulations are used to expose the students to jobs in sales, general accounting, executive, legal, medical, government, and technical offices. Prerequisite: OTEC-182 Document Formatting or 60 words per minute. (Fee: \$30)	
OTEC-276 Legal Terminology--W,Sp	2 hours
Includes learning legal terms, typing legal dictation, and using the transcriber. (Fee: \$10)	
OTEC-277 Medical Terminology--W,Sp	2 hours
Includes using medical terms and typing medical dictation using the transcriber. (Fee: \$10)	
OTEC-285 Records Management--A	3 hours
Instruction in the fundamentals that are essential to managing the records of an office. Alphabetic, geographic, numeric, subject, and chronologic methods of filing are discussed.	
OTEC-286 Legal Office Procedures--W,Sp	2 hours
Comprised of the activities most often performed by the legal secretary. The assignments and terminology are based on actual cases. Prerequisite: OTEC-276 Legal Terminology or permission of instructor. (Fee: \$10)	
OTEC-287 Medical Office Procedures--W,Sp	2 hours
Comprised of activities most often performed by the medical secretary. The assignments and terminology are based on actual cases. Prerequisite: OTEC-277 Medical Terminology or permission of instructor. (Fee: \$10)	
OTEC-289 Secretarial Internship--Sp,Su	1-5 hours
Practical business experience as an office employee; individually designed to meet the interests of the student. Prerequisites: OTEC-183 Document Processing, OTEC-291 Word Processing.	
OTEC-290 Office Systems and Procedures I--W	4 hours
Designed to help the student work in the electronic office, utilize office technology and procedures, and create and distribute documents. Also includes a short unit on machine transcription. Prerequisites: OTEC-183 Document Processing, OTEC-171 Speedwriting II, OTEC-285 Records Management, OTEC-291 Word Processing Concepts, OTEC-293 Information Processing, BUS-216 Business Communication.	
OTEC-291 Word Processing Concepts--A	4 hours
An introduction to the impact of technology on the business office. The operation of word processing equipment using basic text editing procedures is included along with an overview of telecommunications, electronic mail, and other sophisticated communications systems. (Fee: \$30)	
OTEC-292 Office Systems and Procedures II--Sp	2 hours
Designed to help the student in the following areas: researching and organizing information, planning travel and conference arrangements, handling financial and legal procedures, and planning and securing employment. Prerequisite: OTEC-290 Office Systems and Procedures I.	
OTEC-293 Information Processing--A	3 hours
Includes design for the student to become highly proficient in using spreadsheets, data bases, and other application packages currently used in business. (Fee: \$30)	
OTEC-295 Business Graphics and Design--W	3 hours
Designed to explain basic concepts of graphics software, to give detailed information about the types of graphics that are available and when to use each type, to demonstrate how to create each of the major types of graphics, and to learn basic desktop publishing design concepts. (Fee: \$30)	
OTEC-380 Desktop Publishing--Sp	3 hours
Writing, assembling, and designing publications commonly found in businesses such as newsletters, brochures, reports, and promotional materials using PageMaker software. (Fee: \$30)	
OTEC-390 Office Systems Seminar--Sp	3 hours
A comprehensive capstone course that reviews software applications. Students will be expected to solve real-life problems applying their previous training using a database, spreadsheet, graphs, desktop publishing, and word processing. Time will also be spent using electronic calendaring and other telecommunications applications. A review of speedwriting and grammar is included. To be taken the quarter before graduation.	

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Course Descriptions

Departmental Courses

Accounting

ACCT-211,212 Principles of Accounting--A,W,Sp 5 hours each quarter

An introduction to the accounting for sole proprietorships, partnerships, and corporations. Topics include basic bookkeeping procedures, preparation and use of financial statements, management accounting, taxes, and payroll. Prerequisite: sophomore classification.

ACCT-311,312,313 Intermediate Accounting--A,W,Sp 3 hours each quarter

Review of fundamentals, basic accounting theory, and practice. Development of the ability to analyze accounting problems and present clear, supportable solutions is stressed. Prerequisite: ACCT-212 Principles of Accounting.

ACCT-315 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-212 Principles of Accounting, CIS-220 Computer Information Systems.

ACCT-317 Cost Accounting--Sp 5 hours

Principles of industrial and distribution cost accounting, job order and process cost systems, and standard costs. Prerequisite: ACCT-212 Principles of Accounting.

ACCT-411 Federal Income Taxes--A 4 hours

Proper preparation of federal income tax returns for individuals, partnerships, and corporations. Students are introduced to income tax planning and the effect of income taxes on business decisions. Prerequisite: ACCT-211,212 Principles of Accounting, BUS-211,212 Statistics, ECON-233 Microeconomics, ECON-234 Macroeconomics.

ACCT-412 Auditing--A 4 hours

A study of auditing standards and related auditing procedures. Topics include evaluation of audit evidence, professional responsibilities, and auditors' reports and opinions. Prerequisites: ACCT-211,212 Principles of Accounting, ACCT-313 Intermediate Accounting, BUS-211,212 Statistics, CIS-220 Computer Information Systems, ECON-233 Microeconomics, ECON-234 Macroeconomics.

ACCT-413 Advanced Accounting--Sp 4 hours

A study of consolidated financial statements, foreign exchange, estates and trusts, branch accounting, and related problems. Prerequisite: ACCT-211,212 Principles of Accounting, ACCT-313 Intermediate Accounting, BUS-211,212 Statistics, ECON-233 Microeconomics, ECON-234 Macroeconomics.

ACCT-415 Fund Accounting--Sp 4 hours

Accounting and reporting principles, standards, and procedures applicable to not-for-profit organizations. Prerequisite: ACCT-211,212 Principles of Accounting, ACCT-313 Intermediate Accounting, BUS-211,212 Statistics, ECON-233 Microeconomics, ECON-234 Macroeconomics. (odd years)

ACCT-417 Advanced Cost Accounting--Sp 4 hours

Advanced topics in accounting for manufacturing companies and the use of the computer in cost accounting applications. Prerequisite: ACCT-211,212 Principles of Accounting, ACCT-317 Cost Accounting, BUS-211,212 Statistics, ECON-233 Microeconomics, ECON-234 Macroeconomics. (even years)

ACCT-419 Advanced Accounting Problems--W 4 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 C.P.A. examination. Prerequisite: ACCT-313 Intermediate Accounting.

ACCT-421 Advanced Taxation--W 4 hours

An examination of the tax provisions governing C Corporations, S Corporations, Partnerships, and Estates. Analyzes international and multi-state taxation of corporations. Prerequisite: ACCT-411 Federal Income Taxes.

Business Administration

BUS-100 Business Prologue--Sp 1 hour

An introduction to the career opportunities in business and industry, a preview of the programs of study within business, and a look at ethical foundations for the study and practice of business as a Christian professional. This course must be taken the first available quarter the student enters Cedarville College. Open to undeclared students and business majors only.

BUS-211,212 Statistics--A,W,Sp 3 hours each quarter

An introduction to statistical methods used in business decision-making. Topics include probability, sampling, estimation, regression, correlation, and analysis of variance. Prerequisite: GSCI-190 Calculus for Business.

BUS-216 Business Communications--A 4 hours

Instruction for writing business letters, memos, and business reports. Oral business presentations, small group communication, and the communication process in general are also discussed. Prerequisites: ENG-110,140 English Composition I and II.

BUS-218,318 Business Law--A,W,Sp 4 hours each quarter

Study of contracts, sales, bailments, negotiable instruments, agency, employer-employee relationships, partnerships, corporations, insurance, and property. Prerequisite for BUS-318 is BUS-218.

BUS-291 International Business--A 3 hours

To give a global perspective of the business environment, international business terms are defined and the interactions of the various actors, firms, institutions, countries, and groups of countries are developed. An environmental approach including both cultural and financial perspectives develops a broad view of the world economy.

BUS-311 Decision Analysis--A,Sp 3 hours

Introduces mathematical methods of decision analysis. Topics include probability, forecasting, decision under uncertainty, decision trees, inventory models, linear programming, and networks. Prerequisite: Bus-212 Statistics II.

BUS-340 Independent Study in Business Administration 1-4 hours

Research in problems of accounting, computer information systems, general business, economics, finance, management, marketing, or secretarial administration.

BUS-341 Topics in Business 1-5 hours

A variety of courses is 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 on a quarterly basis.

BUS-345 Business Internship 4-16 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-442 Business Seminar--A,W,Sp 3 hours

Discussion of current business topics. Open only to seniors in business administration. Prerequisites: ACCT-211,212 Principles of Accounting, BUS-211,212 Statistics, ECON-233 Microeconomics, ECON-234 Macroeconomics.

BUS-499 Executive Development--A,W,Sp 0 hours

A program of professional development activities which prepares students to move into a corporate environment. Senior business majors are required to maintain enrollment in this program during their last three quarters. Prerequisites: ACCT-211,212 Principles of Accounting, BUS-211,212 Statistics, ECON-233 Microeconomics, ECON-234 Macroeconomics. (Fee: \$10)

Business Education

BSED-347 Materials in Business Subjects--A 2 hours

A study of the materials used in teaching business subjects in high school.

BSED-348 Clinical Teaching--Business--A,W,Sp 1-3 hours

A clinical experience required of teacher education students. The course includes sixty-six clock-hours of on-campus experiences that are analogous to secondary school teaching. These experiences are arranged by the department and are supervised and evaluated as part of teacher-training requirements. They may be taken in one, two, or three credit hour segments.

Computer Information Systems

CIS-100 Introduction to Computers--A,W,Sp 2 hours

An introduction to basic computer hardware, software, and applications. Using popular software packages, the emphasis will be on general and personal applications of the computer for the non-business major. (Fee: \$10)

CIS-124 Computer Programming--BASIC--A 3 hours

Principles of computer programming in BASIC. A strong emphasis is placed on the proper design of a computer program using structured programming concepts and techniques. (Fee: \$10)

CIS-220 Computer Information Systems--A,W,Sp 3 hours

An overview of computer information systems. The integration and application of computer hardware, software, procedures, systems, and human resources are explored. Emphasis on using spreadsheets, word processing, and database techniques. (Fee: \$10)

CIS-221 FORTRAN Programming--Sp 4 hours

Problem solving is emphasized as algorithms and techniques useful in practical business and scientific application are introduced in programming arithmetic, logic, and data handling functions. (Fee: \$10)

CIS-222 Structured Programming--Sp 4 hours

Structured programming concepts are developed through programming assignments in a high level language. The program development process, top down design, stepwise refinement, as well as the analysis of algorithms and data structures will be used to develop sound problem-solving techniques. Intended to be the first programming course for CIS majors. (Fee: \$10)

CIS-223 Microcomputer Applications--A 3 hours

A study of the use of electronic spreadsheet and database management software in business applications. (Fee: \$10)

CIS-224 COBOL Programming--A 4 hours

The course introduces the basic program structure of a high level programming language as business-oriented programs are prepared and executed. Advanced topics are developed with stress upon more efficient programming techniques, documentation, and structured programming. Prerequisite: CIS-222 Structured Programming. (Fee: \$10)

CIS-226 Modern Programming Tools--W 4 hours

A study of data structures and advanced software products currently available on CedarNet which make effective use of those data structures. The student will study concepts and acquire tools needed for later software development courses. Tools may include such things as Visual Basic, application and code generators, 4 GLs, etc. Prerequisite: CIS 224 COBOL Programming. (Fee: \$10)

CIS-326 Systems Analysis--A 4 hours

A study that provides an understanding of the duties of the systems analyst together with an understanding of the specific methods and techniques for conducting a systems project--from the preliminary investigation of the project through the systems implementation and evaluation. Prerequisite: CIS-221 FORTRAN Programming or CIS-224 COBOL Programming.

CIS-327 Systems Design 4 hours

Advanced study of structured systems development. Emphasis on strategies and techniques of structured analysis and structured design for producing logical methodologies for dealing with complexity in the development of information systems. Prerequisite: CIS-326 Systems Analysis.

CIS-328 Database Development--Sp 4 hours

Introduction to application program development in a database environment with an emphasis on loading, modifying and querying the database using a host language (COBOL). Discussion and application of data structures, indexed and direct file organizations, models of data including hierarchical, network, and relational. Prerequisite: CIS-224 COBOL Programming. (Fee: \$10)

CIS-329 Software and Hardware Concepts--A 4 hours

A survey of technical topics related to computer systems with emphasis on the relationships between hardware architecture, systems software, and applications software.

CIS-330 Data Structures--Sp 4 hours

A variety of data types and structures such as arrays, sets, records, stack queues, linked lists, trees and graphs will be discussed and demonstrated through programming exercises in a high level language. Applications to searching and sorting algorithms will be investigated. Prerequisite: CIS-222 Structured Programming. (Fee: \$10)

CIS-340 Data Communications and Networking--W 4 hours

A study of the basic concepts of data and voice communications and current networking technology. Discussion of physical-layer considerations, higher-layer implications, and network operating systems. The concepts will be applied through a hands-on project of network design, implementation, and documentation. Prerequisite: any computer course other than CIS-100. (Fee: \$10)

CIS-420 Beginning Programming Languages--A 4 hours

Advanced programming concepts using one or more structured languages (selected from Pascal, ADA, Modula 2, C). Theories of program design and implementation. Some discussion of compiler construction. Prerequisites: ACCT-211,212 Principles of Accounting, BUS-211,212 Statistics, ECON-233 Microeconomics, ECON-234 Macroeconomics. (Fee: \$10)

CIS-421 Software Development--W 3 hours

Application of computer programming and system development concepts, principles and practices to a comprehensive system development project. A team approach is used to analyze, design, and document realistic systems of moderate complexity. Use of project management methods, project scheduling and control techniques, formal presentations, and group dynamics in the solution of information systems problems. Development of database to support the system. Prerequisites: ACCT-211,212 Principles of Accounting, BUS-211,212 Statistics, CIS-224 COBOL Programming or permissions of instructor, CIS-326 Systems Analysis, ECON-233 Microeconomics, ECON-234 Macroeconomics. (Fee: \$10)

Economics

ECON-233 Microeconomics--A,W 4 hours

That 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 which is carried on by individual households and by business firms.

ECON-234 Macroeconomics--W,Sp 4 hours

That 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 such economic phenomena as interest rates, the price level and national income, output and employment. Prerequisite or corequisite: ECON-233 Microeconomics or permission of instructor.

ECON-313 Government and Business--W 4 hours

A study of the governmental agencies and their effect on American business. Case studies and current events are developed to show the trends and status of various laws and regulations. The economic impact and difficulties which arise in managing a business are reviewed. Prerequisite: ECON-233 Microeconomics. (odd years)

ECON-331 International Money & Capital Markets--Sp 4 hours

A study of money, banking, and monetary theory, with particular emphasis on international financial markets. Prerequisite: ECON-233 Microeconomics.

ECON-334 History of Economic Thought--Sp 4 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-233 Microeconomics.

(even years)

ECON-335 Comparative Economic Systems--A 4 hours

Analysis of the major economic systems existing in the world today. This involves, among others, capitalism, socialism, communism, and fascism. The economies of France, China, Japan, and Yugoslavia are considered. Prerequisite: ECON-233 Microeconomics.

(odd years)

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ECON-336 International Trade and Economics--W 4 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-233 Microeconomics or permission from instructor.

ECON-337 Labor Economics--A 4 hours

An examination of the role of unions and the labor market in a free enterprise system. Emphasis is given to the impact of unions as a social institution in the collective bargaining process. Labor legislation and the labor movement are studied from both a historical and current perspective. Prerequisite: ECON-233 Microeconomics. (even years)

ECON-338 Developmental Economics & Political Economy--Sp 4 hours

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-233 Microeconomics, ECON-234 Macroeconomics or permission of instructor.

ECON-339 Public Finance--Sp 4 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 which are present in the United States are studied as to structure, revenue gained, and present status. Prerequisite: ECON-234 Macroeconomics. (even years)

Finance

FIN-171 Personal Finance--A,Sp 4 hours

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

FIN-273 Church Business Administration--W 4 hours

A study of the principles and procedures of the financial management of the local church organization. (Credit not applicable to meet business elective requirements.)

FIN-331 International Money and Capital Markets--Sp 4 hours

A study of money, banking, and monetary theory, with particular emphasis on international financial markets. Prerequisite: ECON-233 Microeconomics.

FIN-371 Financial Management of the Firm--A,W,Sp 4 hours

A study of the practical and theoretical aspects of financial decision making. Topics include cost of capital, capital structure, management of current assets, capital budgeting, sources of funds, and statement analysis. Prerequisite: ACCT-212 Principles of Accounting and BUS-212 Statistics.

FIN-373 Investments--W 4 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-371 Financial Management of the Firm.

FIN-377 Security Analysis and Portfolio Management--Sp 4 hours

The theory and practice of security analysis techniques and portfolio management objectives. Prerequisite: FIN-373 Investments.

FIN-470 Senior Seminar in Finance--W 2 hours

A forum to discuss contemporary topics and issues in finance and provide guidance in areas of student career interest. Prerequisites: ACCT-211,212 Principles of Accounting, ACCT-311,313 Intermediate Accounting, BUS-211,212 Statistics, ECON-233 Microeconomics, ECON-234 Macroeconomics, FIN-331 Money and Capital Markets, FIN-371 Financial Management of the Firm, FIN-373 Investments.

FIN-472 Business Valuation--W 4 hours

An advanced course in financial management, focusing on the valuation of business wealth. Introduction to standards of value, valuation methods for mergers, acquisitions, LBO's, reorganizations, workouts and bankruptcy. Prerequisites: ACCT-211,212 Principles of Accounting, ACCT-311,312 Intermediate Accounting, BUS-211,212 Statistics, ECON-233 Microeconomics, ECON-234 Macroeconomics, FIN-371 Financial Management of the Firm.

FIN-475 Financial Institution Administration--A 4 hours

An integrated and comprehensive analysis of the management of financial institutions considering the unique problems faced by each type of institution. Prerequisites: ACCT-211,212 Principles of Accounting, BUS-211,212 Statistics, ECON-233 Microeconomics, ECON-234 Macroeconomics, FIN-331 International Money and Capital Markets.

FIN-479 Case Problems in Financial Management--Sp 4 hours

Case study of financial management in business enterprises. Planning current and long-term financial needs, profit planning, funds allocation, dividend policy, expansion, and combination. Prerequisites: ACCT-211,212 Principles of Accounting, BUS-211,212 Statistics, ECON-233 Microeconomics, ECON-234 Macroeconomics, FIN-472 Business Valuation.

Management

MGMT-350 Principles of Organization and Management--A,W,Sp 4 hours

An examination of the policies, principles, practices, and problems involved in the organization and management of business concerns.

MGMT-351 Small Business Management--Sp 4 hours

A course dealing with the program involved in establishing and managing a small business. Financial organization, services, and problems are analyzed. Prerequisites: ACCT-212 Principles of Accounting, MGMT-350 Principles of Organization and Management, and MRKT-360 Principles of Marketing.

MGMT-352 Production and Operations Management--Sp 4 hours

Introduction to the concepts, methodologies, and application of production and operations management. Designed to develop problem solving and decision making skills for application in the operations and production areas of the firms. Designed to develop an appreciation for the interaction of operations management with the management systems of organization. Prerequisites: ACCT-212 Principles of Accounting, BUS-212 Statistics, MGMT-350 Principles of Organization and Management.

MGMT-353 Human Resources Management--W 4 hours

An analysis of the principal functions, processes, and problems involved in the management of personnel policies; selection, training, promotion, compensation, and discharge of personnel; labor turnover, safety, health, and recreation. Prerequisite: MGMT-350 Principles of Management or permission of instructor.

MGMT-354 Management Science--A 4 hours

An introduction to linear programming, transportation and assignment problems, network flow problems, and inventory systems. The linear programming, transportation and assignment, network flow, and inventory models are solved and their use demonstrated by various applications. Prerequisite: BUS-212 Statistics. (even years)

MGMT-355 Organizational Behavior--A,W 4 hours

A study of the impact of human behavior within and upon the organizational structure. Emphasis is given to behavior as related to employment, absenteeism, employee turnover, productivity, human performance, and management. Prerequisite: MGMT-350 Principles of Organization and Management or permission of instructor.

MGMT-357 International Management--W 4 hours

A broad perspective of management of principles as they interact in the 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-350 Principles of Organization and Management.

MGMT-451 Administrative Policy and Strategy-A,W,Sp 4 hours

A capstone to the undergraduate business program, integrating functional areas. Strategic issues faced by organizations are analyzed in a comprehensive manner. Skills in strategic analysis are developed through lectures and from diverse industries, nonprofit and quasi-public institutions. Open only to seniors in business administration. Prerequisites: ACCT-211,212 Principles of Accounting, BUS-211,212 Statistics, ECON-233 Microeconomics, ECON-234 Macroeconomics, FIN-371 Financial Management of the Firm, MGMT-350 Principles of Organization and Management, MGMT-360 Principles of Marketing.

MGMT-452 Purchasing and Materials Management--A 4 hours

An examination of the basic purchasing principles including the determination of price, quality and delivery times of materials. Effective management of suppliers through their selection and certification will be matched with strategic production policies such as inventory control and production scheduling. Prerequisites: ACCT-211,212 Principles of Accounting, BUS-211,212 Statistics, ECON-233 Microeconomics, ECON-234 Macroeconomics, MGMT-350 Principles of Organization and Management.

MGMT-453 Industrial Relations Management--Sp 4 hours

The interplay between market forces and institutional rules which determine the employment relationship. Labor history, the effects of changing public policies, trade unions, collective bargaining are viewed from various international perspectives. Prerequisites: ACCT-211,212 Principles of Accounting, BUS-211,212 Statistics, ECON-233 Microeconomics, ECON-234 Macroeconomics, MGMT-350 Principles of Organization and Management.

Marketing

MRKT-360 Principles of Marketing--A,W,Sp 4 hours

Survey of the marketing function in the business environment. Product, price, promotion, and distribution as well as consumers, organizations, service, nonprofit, and international markets.

MRKT-361 Sales Management--A 4 hours

Principles employed in the administration and strategy of a sales force. Factors involved in the organization of the sales force: recruiting and selection, training, compensation, motivating, and controlling. Prerequisites: MGMT-350 Principles of Organization and Management, MRKT-360 Principles of Marketing.

MRKT-363 Marketing Research--W 4 hours

Role of market research in marketing development. Decision making in an atmosphere of uncertainty. Determination of hypotheses. Planning research designs: survey, observational, experimental, and simulation. Execution of survey design: questionnaire construction, sample design, interviewing, tabulation, analysis, interpretation of results, and presentation. Prerequisites: MRKT-360 Principles of Marketing, BUS-212 Statistics.

MRKT-365 Consumer Behavior--A 4 hours

Introduction to the psychological, sociological, cultural, and economic determinants of consumer behavior. Emphasis on exploration of various concepts and theories for the purpose of building understanding and of providing an exposure to a variety of viewpoints. Prerequisite: MRKT-360 Principles of Marketing.

MRKT-366 Principles of Advertising--W 4 hours

Advertising as a tool in marketing management. Decision-making relative to market analysis. Media selection, budgeting, production and layout, and measurement of effectiveness. Prerequisite: MRKT-360 Principles of Marketing or permission of instructor.

MRKT-367 Industrial Marketing--Sp 4 hours

A study of the industrial market sector which includes buying behavior, applied demand analysis, and segmentation techniques. Designed to provide the student with decision-making capabilities for use in the industrial setting. Prerequisite: MRKT-360 Principles of Marketing.

MRKT-368 Nonprofit Marketing--Sp 4 hours

The course is designed to acquaint the student with skills, abilities, and attitudes necessary in order to effectively implement marketing practice in nonprofit organizations. Prerequisite: MRKT-360 Principles of Marketing or permission of instructor. (alternate years)

MRKT-460 Marketing Management--W 4 hours

The marketing function relative to product development, promotion, pricing, physical distribution, and the determination of marketing objectives of the marketing system and available markets. Prerequisites: ACCT-211,212 Principles of Accounting, BUS-211,212 Statistics, ECON-233 Microeconomics, ECON-234 Macroeconomics, MGMT-350 Principles of Organization and Management, MRKT-360 Principles of Marketing.

MRKT-461 Marketing Strategy--Sp 4 hours

Computer simulation will be used to acquaint the senior marketing student in a realistic fashion to a variety of marketing situations and allow "hands-on" solutions to be implemented and tested. Prerequisites: ACCT-211,212 Principles of Accounting, BUS-211,212 Statistics, ECON-233 Microeconomics, ECON-234 Macroeconomics. Senior standing and sixteen hours of marketing including MRKT-360 Principles of Marketing.

MRKT-462 International Marketing--Sp 4 hours

An intensive investigation of the problems, regulations, and challenges facing U.S. manufacturers seeking to expand their markets to countries abroad. Prerequisites: ACCT-211,212 Principles of Accounting, BUS-211,212 Statistics, ECON-233 Microeconomics, ECON-234 Macroeconomics, MRKT-360 Principles of Marketing.

70 Communication Arts

Profile

The Department of Communication Arts utilizes a combination of theory and practice to help students communicate effectively in a wide range of situations.

Faculty

James Phipps, Chairman: Professor of Communication Arts. Former president, Speech Communication Association of Ohio; village councilman; experienced sportscaster; president, Mid-Ohio Conference. *Education:* B.A., Cedarville College, 1968; M.A., The Ohio State University, 1970; Ph.D., The Ohio State University, 1975. At Cedarville since 1968.

J. Wesley Baker, Professor of Communication Arts. Experienced newscaster; researcher in interactive video. *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.

Gary Barker, Assistant Professor of Communication Arts. *Education:* B.A., Cedarville College, 1986; M.F.A., Michigan State University, 1989; post-graduate study, Regents College, England, The Central School of Speech and Drama, Summer, 1989. At Cedarville since 1992.

Deborah Haffey, Associate Professor of Communication Arts. Popular conference speaker; debate coach. *Education:* B.A., Cedarville College, 1968; M.A., The Ohio State University, 1969. At Cedarville since 1986.

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

James Leightenheimer, Assistant Professor of Communication Arts. Advisor of WSRN; Experienced broadcaster. *Education:* B.A., Cedarville College, 1980; M.A., Ohio University, 1989. At Cedarville since 1982.

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

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

Diane Merchant, Assistant Professor of Communication Arts. Coordinator of secondary education program. *Education:* B.A., Cedarville College, 1978; M.A., Kent State University, 1990; graduate study, The Ohio State University. At Cedarville since 1986.

Kurt Moreland, Assistant Professor of Communication Arts. Advisor for the student chapter of the Society for Human Resource Management. *Education:* B.A., Cedarville College, 1976; M.A., West Virginia University, 1978; all work completed for Ph.D. except dissertation, Purdue University. At Cedarville since 1981.

David Robey, Associate Professor of Communication Arts. Director of Forensics; Director of the Village Players. Experienced actor; professional speaker; communications consultant. *Education:* B.A., Pillsbury Bible College, 1970; M.A., Bob Jones University, 1972; graduate study, Tennessee Temple University, 1974; Ph.D., Union Graduate School, 1989. At Cedarville since 1981.

Margaret Wheeler, Instructor of Communication Arts. *Education:* B.A., Cedarville College, 1964. At Cedarville since 1995.



Cedarville Forensics Teams have captured the state title five of the last six years by defeating major universities like Ohio State, Miami, and Bowling Green.



Cedarville broadcasting graduates obtain positions around the country. Ruth Yuen, a 1990 graduate, serves as news director at WUFN-FM in Albion, Michigan.

Programs of Study

The Communication Arts Department offers the following programs of study:

Majors:

Broadcasting, with specializations in:

- Management/Sales
- Production
- Video media production

Communication arts, with specializations in:

- General communications
- Organizational communications
- Platform arts communications

Multimedia Technologies, with specializations in:

- Music
- Radio/television
- Speech education

Minors:

- Broadcasting
- Communication arts
- Organizational communications
- Platform arts

Career Opportunities

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

- actor
- attorney
- broadcast programmer
- college professor
- investment consultant
- journalist
- manager
- minister
- multimedia technology
- personnel manager
- politician
- producer
- public relations
- salesman
- station manager
- teacher

Co-Curricular Opportunities

Forensics is intercollegiate speech competition. Areas of competition include public speaking, oral interpretation, limited preparation events, and Lincoln-Douglas debate. (Please refer to the Honors speech course definition: COM-112.) Cedarville competes regularly with The Ohio State University, Miami University, Ball State University, and other nationally ranked institutions. For five of the past six years, Cedarville has won the Ohio State Forensics Championship. Qualified students from all majors may contact Dr. David Robey, Director of Forensics, for audition information. Limited scholarships are available.

The Cedarville College **Debate Team** successfully competes with colleges and universities in the eastern United States. Cedarville's debaters are competitively ranked within the East Central region. Students with the competitive edge who plan to pursue leadership careers such as the ministry, law, education, business, or politics are encouraged to contact the debate coach, Deborah Haffey.

Communication arts majors interested in organizational communication and human resources are encouraged to join the Cedarville College 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. Activities include, but are not limited to, dinner meetings, plant tours, shadow days, and professional seminars and conferences.

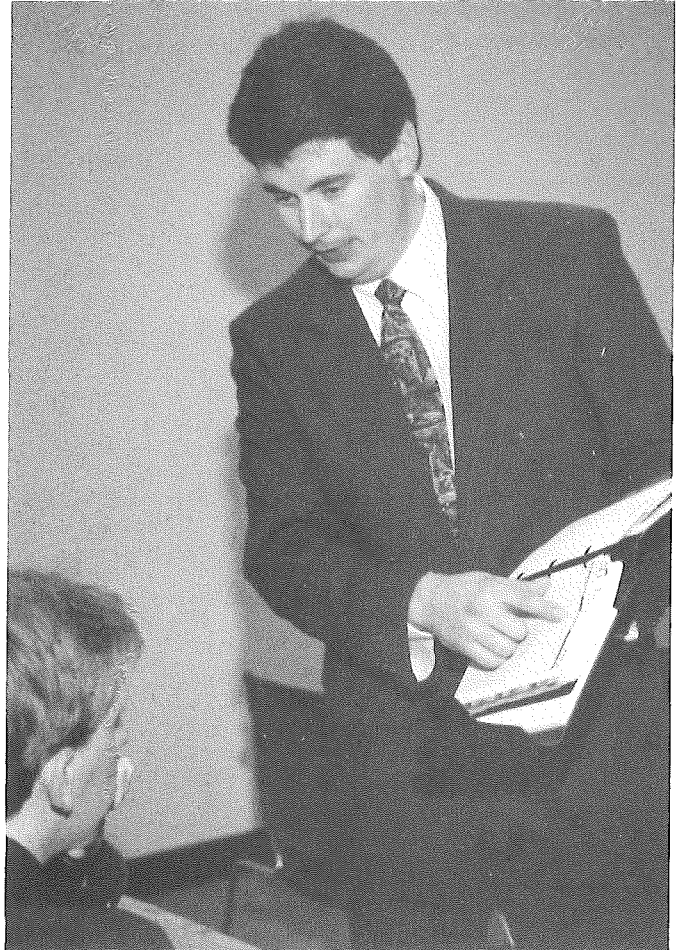
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Broadcasting

Broadcasting is offered as an interdisciplinary major in the department. The combination of courses is designed to reflect the broad areas of knowledge necessary for those pursuing careers in mass communications. The major is paraprofessional in nature and attempts to produce a balance between the practical and theoretical aspects of broadcasting. Cedarville graduates have excelled in broadcasting and related careers.

Course requirements involve seventy quarter hours including forty quarter hours of core courses and thirty quarter hours in an area of specialization or electives approved by the department chairman. Internships, though strongly recommended, are dependent upon availability and placement.

Broadcasting core requirements	40
COM-331 Communication in the Information Age	3
RTV-101 Introduction to Broadcasting	3
RTV-102 Audio Control Techniques	2
RTV-103 Broadcast Program Production	4
RTV-104 Broadcast Announcing	4
RTV-201 Academic Research	2
RTV-212 Writing for the Electronic Media	3
RTV-301 Broadcast Research Systems	3
RTV-341 Issues and Ethics in Electronic Media	3
RTV-401 Mass Media Law and Regulation	4
RTV-402 Seminar in Religious Broadcasting	3
RTV-482 Senior Project I Broadcasting	3
RTV-483 Senior Project II Broadcasting	3



Students gain valuable practical insights from broadcasting professionals who regularly visit the classroom. Mark Herbst, a 1985 graduate with WHIO-WHKO in Dayton, Ohio, is pictured here lecturing on broadcast sales.



The breadth of the broadcasting curriculum prepares graduates to work in a variety of media-related fields. 1993 graduate Scott Mills, pictured here with Christian vocalist Steve Green, works as a national radio promoter with Sparrow Records in Nashville, Tennessee.

Specializations, selected by the end of the sophomore year, include:

- Broadcast management/sales
- Broadcast production
- Video media production

Broadcast management/sales prepares students for the business aspects of broadcasting by utilizing additional coursework in broadcasting and business administration. Course requirements include:

<i>Broadcast management/sales requirements</i>	<i>30</i>
COM-323 Organizational Communication	3
COM-406 Leadership	4
MGMT-350 Prin. of Organization and Management	4
MRKT-360 Principles of Marketing	4
RTV-260 Broadcast Clinic (minimum)	2
RTV-331 Broadcast Advertising and Sales	4
RTV-361 Advanced Broadcast Clinic (minimum)	2
RTV-431 Broadcast Management	3
<i>Electives (approved by advisor)</i>	<i>4</i>

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Cedarville broadcasting students gained valuable experience while training this past summer in Atlanta, Georgia, to work at the 1996 Summer Olympic Games.

Broadcast production is designed for the student planning "on-air" or production work in radio or television. This emphasis includes additional coursework in broadcasting as well as courses from the other areas of communication arts. Course requirements include:

<i>Broadcast production requirements</i>	30
COM-141 Introduction to Dramatic Art	3
COM-232 Theories of Mass Media	5
COM-241 Fundamentals of Oral Interpretation	5
RTV-221 TV Production	4
RTV-260 Broadcast Clinic	2
RTV-310 Advanced Audio Production	4
RTV-361 Advanced Broadcast Clinic (minimum)	2
<i>Electives (approved by advisor)</i>	5

Video media production prepares students interested in the non-broadcast applications of video in business, industry, education, health careers, and the so-called "new media." Course requirements include:

<i>Video media requirements</i>	30
RTV-260 Broadcast Clinic (minimum)	2
RTV-262 TV Camera Clinic (minimum)	2
RTV-271 Introduction to Electronic Multimedia	3
RTV-320 Television Production	4
RTV-321 Electronic Field Production	4
RTV-365 Advanced Broadcast Clinic in Graphics	2
RTV-371 Graphics Design for Multimedia	
Computing	3
<i>Electives (approved by advisor)</i>	10

Broadcasting Major Curriculum Summary

Proficiency requirements	0-8
Broadcasting major requirements	70
Other General Education requirements	80-101
Electives	15-36
Total (minimum, not including proficiency)	192

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in Broadcasting

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
COM-110 Fundamentals of Speech	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
PEF-199 P.A.C.L.	2
RTV-101 Introduction to Broadcasting	3
RTV-102 Audio Control Techniques	3
RTV-103 Program Production	4
RTV-104 Broadcast Announcing	4
History elective	4-5
Physical education elective	1
Total	45

Second year:

BEGE-273 Old Testament Survey	4
GSS-100 Foundations Social Science	5
HUM-140 Introduction to the Humanities	5
RTV-201 Academic Research in Mediated	
Communication	2
RTV-202 Writing for the Electronic Media	2
RTV-301 Broadcast Research Systems	3
RTV-320 T.V. Production	4
Biology elective	5
Literature elective	5
Major specialization courses	10
Social science elective	4
Total	47

Third year:

BEGE-274 New Testament Survey	4
BEGE-375 God and History	4
BEPH-220 Introduction to Philosophy	5
COM-331 Communication in the Information Age	3
Language or electives	15
Major specialization courses	15
Physical science elective	5
Total	51

Fourth year:

BEGE-376 God and the Church	4
RTV-401 Mass Media Law	4
RTV-402 Seminar in Religious Broadcasting	3
Major specialization courses	12
Mathematics or science elective	5
Electives	20
Total	48

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Communication Arts

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

Course requirements involve fifty-five quarter hours including thirty-one hours in core requirements and twenty-four hours in an area of specialization chosen with the advice of the student's academic advisor.

Graduating seniors in communication arts culminate their programs with an individualized senior project under the direction of a faculty mentor. This project involves either a senior recital or a senior thesis.

The senior recital emphasizes the performance training in areas of acting, oral interpretation and public speaking, and results in a public performance. Students planning to do a recital should take COM-241 Fundamentals of Oral Interpretation as a prerequisite. The senior thesis emphasizes research and writing, and results in a public lecture. Those doing the senior thesis should take COM-205 Communication Theories as a prerequisite.

The core requirements involve thirty-one quarter hours including:

COM-200 Persuasive Theory	5
COM-210 Advanced Public Speaking	5
COM-222 Research in Communication	4
COM-324 Interpersonal Communication	3
COM-331 Communication in the Information Age	3
COM-411 History of Public Address	5
COM-482,483 Senior Project I,II - Research	6
(or COM-484,485 Senior Project I,II - Recital	6)

Specializations, selected by the end of the sophomore year, include:

- General communications
- Organizational communications
- Platform arts communications

Specialization requirements may be adjusted to the needs of individual students with the written permission of the department chairman.

General communications specialization requirements (selected from the following) 24

COM-123 Voice and Diction	3
COM-205 Communication Theory	3
COM-223 Group Discussion	3
COM-232 Theories of Mass Media	5
COM-312 Argumentation and Debate	5
COM-313 Rhetorical Criticism	3
COM-431 Communication Internship	5-15
COM-461 Communication Ethics	3
COM-471 through COM-476 Independent Study	1-4



Summer jobs can provide excellent experiences and contacts. Brent Gibbs, pictured here with recording artist Cheri Keaggy, spent this past summer in Nashville working as an intern for Sparrow Records.



Professors work closely with students to develop their speaking skills. David Robey coaches the forensics team, directs theatrical productions, and advises senior recitalists.

Organizational communications specialization requirements	24
COM-323 Organizational Communication	3
COM-325 Interviewing	3
COM-333 Organizational Training	4
MGMT-350 Prin. of Organization and Management	4
MGMT-353 Human Resources Management	4
<i>Electives (selected from)</i>	6
COM-223 Group Discussion	3
COM-326 Organizational Negotiation	4
COM-232 Theories of Mass Media	5
COM-312 Argumentation and Debate	5
COM-406 Leadership	3
COM-461 Communication Ethics	3
COM-471 through COM-476 Independent Study	1-4
COM-481 Internship in Communication	5-15
MGMT-355 Organizational Behavior	4
PWRT-312 Professional Writing	5
PWRT-315 Public Relations Writing	5
Platform arts specialization requirements	24
COM-240 Stage Craft	2
COM-241 Fundamentals of Oral Interpretation	5
COM-243 Principles of Acting	3
COM-343 Principles of Play Directing	4
COM-346 Advanced Acting	3
<i>Electives (selected from)</i>	10
COM-112 Honors Speech	5
COM-123 Voice and Diction	3
COM-141 Introduction to Dramatic Art	3
COM-146 Dramatic Participation	1-4
COM-245 Forensics/Individual Events	1-2
COM-312 Argumentation and Debate	5
COM-471 through COM-476 Independent Study	1-4

Communication Arts Major Curriculum Summary	
Proficiency requirements	0-8
Other General Education requirements	81
Communication arts major requirements	55
Electives	56
Total (minimum, not including proficiency)	192

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in Communication Arts	
<i>First year:</i>	
BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
COM-110 Fundamentals of Speech	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSS-100 Foundations of Social Science	5
HUM-140 Introduction to the Humanities	5
PEF-199 P.A.C.L.	2
Biology elective	5
History elective	5
Physical education elective	1
Total	46
<i>Second year:</i>	
BEGE-273 Old Testament Survey	4
BEPH-220 Introduction to Philosophy	5
COM-210 Advanced Public Speaking	5
COM-222 Research in Communications	4
COM-200 Persuasive Theory	5
COM-205 Communication Theory	3
COM-241 Fundamentals of Oral Interpretation (recital students)	5
Language or electives	15
Literature elective	5
Total	46-48
<i>Third year:</i>	
BEGE-274 New Testament Survey	4
BEGE-375 God and History	4
COM-324 Interpersonal Communication	3
COM-331 Communication in the Information Age	3
Major specialization courses	12-15
Physical science elective	5
Science/mathematics elective	5
Social science elective	4
Electives	10
Total	50
<i>Fourth year:</i>	
BEGE-376 God and the Church	4
COM-411 History of Public Address	5
COM-462 or 463 Senior project	6
Major specialization courses	10
Electives	25
Total	50

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Multimedia Technologies

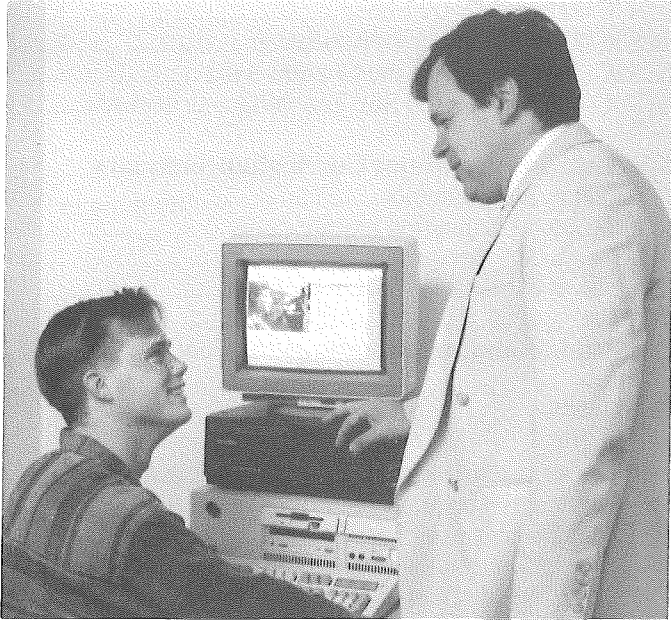
The multimedia technologies major prepares students for careers in the recording industry and its related fields. The exploration of computerized audio, video, and MIDI technology in the program enables students to become both skilled technicians and effective communicators by utilizing contemporary electronic media. The program involves two concentrations, music and radio/television. Multimedia technologies majors who choose the music concentration will be advised by music department faculty.

Course requirements involve seventy-two quarter hours including forty-seven hours in core requirements and twenty-five hours in the area of concentration.

<i>Core requirements</i>	47
COM-331 Communication in the Information Age	3
COM-482 Senior Project I-Research	3
COM-483 Senior Project II-Research	3
GMUS-100 Music Orientation	0
GMUS-103 Recital and Program Attendance	0
MGMT-350 Principles of Organization and Management	4
MRKT-360 Principles of Marketing	4
RTV-212 Writing for Electronic Multimedia	3
RTV-271 Introduction to Electronic Multimedia	3
RTV-310 Advanced Audio Production	4
RTV-321 Electronic Field Production	4
RTV-341 Issues and Ethics in Electronic Media	3
RTV-401 Mass Media Law and Regulations	4
THMU-121 Music Theory	3
THMU-131 Aural Skills	2
THMU-322 Synthesizer Applications in Music	2
THMU-323 Computer Applications in Music	2



Equipment available to students enables them to gain the extensive editing experience they need to obtain positions in the growing video field.



Wes Baker, a recognized leader in interactive video authoring, consults for Amiga computers in addition to teaching many of the video-related courses.

Music concentration requirements	25
THMU-122,123,224 Music Theory II,III,IV	9
THMU-132,133,234 Aural Skills II,III,IV	6
HLMU-231 Introduction to Music Literature	4
THMU-413 Orchestration	3
Ensemble	3
Recommended electives	
CLMU-181 or 182 Piano Class I or II	2
RTV-102 Audio Control Techniques	2
RTV-331 Broadcast Advertising and Sales	4
RTV-365 Advanced Clinic in Graphics	2
RTV-371 Graphic Design for Multimedia Computing	3
RTV-375 Authoring for Interactive Multimedia	4
RTV-407 Internship in Broadcasting	5-15
Radio/television concentration requirements	25
RTV-101 Introduction to Broadcasting	3
RTV-102 Audio Control Techniques	2
RTV-260 Broadcast Clinic	2-6
RTV-310 Advanced Audio Production	4
RTV-365 Adv. Broadcasting Clinic in Graphics	2
RTV-366 Adv. Broadcasting Clinic: 3D Graphics and Animation	2
RTV-371 Graphic Design for Multimedia Computing	3
RTV-375 Authoring Electronic Multimedia	4
Recommended electives	
CLMU-181 or 182 Piano Class I or II	2
MRKT-366 Principles of Advertising	4
RTV-201 Research in Media Communications	2
RTV-331 Broadcast Advertising and Sales	4
RTV-407 Internship in Broadcasting	5-15
RTV-408 Independent Study in Broadcasting	1-4

Multimedia Technologies Major Curriculum

Summary

Proficiency requirements	0-8
Other General Education requirements	86
Multimedia technologies requirements	72
Electives	34
Total (minimum, not including proficiency)	192

A complete description of the General Education Requirements is found on page 31.

Suggested 4-year Curriculum for a Major in Multimedia Technologies

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
COM-110 Fundamentals of Speech	5
ENG-110 Composition I	5
ENG-140 Composition II	5
GMUS-100 Music Orientation	0
GMUS-103 Recital and Program Attendance	0
PEF-199 P.A.C.L.	1
RTV-271 Introduction to Electronic Multimedia	3
THMU-121 Music Theory I	3
THMU-131 Aural Skills I	2
THMU-322 Synthesizer Applications in Music	2
Multimedia technology concentration requirements	10
History elective	4
Total	48

Second year:

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
GSS-100 Foundations of Social Science	5
HUM-140 Introduction to Humanities	5
RTV-212 Writing for Electronic Multimedia	3
RTV-310 Advanced Audio Production	4
RTV-321 Electronic Field Production	4
THMU-323 Computer Applications in Music	2
Multimedia technology concentration requirements	8
Biology elective	5
Literature elective	5
Physical education elective	1
Total	50

Third year:

BEGE-375 God and History	4
BEPH-220 Introduction to Philosophy	5
COM-331 Communication in the Information Age	3
RTV-341 Issues and Ethics in Electronic Media	3
Multimedia technology concentration requirements	8
Social science elective	5
Language or electives	15
Science or mathematics elective	5
Total	48

Fourth year:

BEGE-376 God and the Church	4
COM-481 Senior Project I-Research	3
COM-482 Senior Project II-Research	3
MGMT-350 Prin. of Organization and Management	4
MRKT-360 Principles of Marketing	4
RTV-401 Mass Media Law and Regulation	4
Physical science elective	5
Electives	19
Total	46

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Speech Education

The **speech education major** prepares students to teach speech in grades 7-12 in both public and Christian schools. Students who complete this curriculum will be certified by the State of Ohio and the Association of Christian Schools International. The Ohio teaching certificate, through reciprocal agreements, is automatically recognized in 35 states. Those planning to teach in states other than Ohio or the reciprocal states should consult with "The Department of Education" in those states to be aware of any special requirements.

Course requirements involve fifty-one quarter hours selected from the following:

COM-123 Voice and Diction	3
COM-141 Introduction to Dramatic Art	3
COM-200 Persuasive Theory	5
COM-210 Advanced Public Speaking	5
COM-222 Research Communication	4
COM-223 Group Discussion	3
COM-232 Theories of Mass Media	5
COM-240 Stage Craft	2
COM-241 Fundamentals of Oral Interpretation	5
COM-243 Principles of Acting	3
COM-312 Argumentation and Debate	5
COM-324 Interpersonal Communication	3
COM-331 Communication in the Information Age	3
COM-343 Principles of Play Directing	4
COM-360 Teaching Speech	2
COM-361 Teaching Creative Dramatics	3
COM-362 Teaching Secondary Drama	2
COM-365 Clinical Methods of Teaching Speech	3
RTV-101 Introduction to Broadcasting	3
RTV-102 Audio Control Techniques	2

Additional courses may be selected through consultation with faculty advisors. Students may use speech as a second teaching field by selecting forty-five quarter hours from the above courses.

Students who complete the speech education communication requirements and choose not to complete the professional education requirements may graduate with a communication arts major, pending approval by the department chairman.

Students must also complete the following professional education requirements:

EDUC-100 Introduction to Education	2
EDUC-101 Field Experience	2
EDUC-102 Education of the Exceptional Child	2
EDUC-200 Audio Visual Methods	1
EDUC-201 Preliminary Student Involvement	0
EDUC-300 Learner and the Learning Process	4
EDUC-302 Teaching Thinking Skills	2
EDUC-316 Principles of Teaching	4

EDUC-317 Field Experience	4
EDUC-321 Philosophy of Education	3
EDUC-350 Reading in the Content Area	3
EDUC-450 Supervised Stu. Teaching and Seminar	15

Speech Education Major Curriculum Summary

Proficiency requirements	0-8
Other General Education requirements	80
Speech education requirements	51
Professional Education requirements	42
Electives	19
Total (minimum, not including proficiency)	192

Minors

Course requirements for the **minor in broadcasting** involve twenty-six quarter hours including:

COM-232 Theories of Mass Media	5
COM-331 Communication in the Information Age	3
RTV-101 Introduction to Broadcasting	3
RTV-102 Audio Control	2
RTV-202 Writing for Electronic Media	3
RTV-271 Introduction to Electronic Multimedia	3
RTV-341 Issues and Ethics in Electronic Media	3
RTV-402 Seminar in Religious Broadcasting	3

Course requirements for the **minor in general communication arts** involve twenty-five quarter hours including:

COM-200 Persuasive Theory	5
COM-210 Advanced Public Speaking	5
COM-222 Research in Communication	4
COM-324 Interpersonal Communication	3
COM-331 Communication in the Information Age	3
COM-411 History of Public Address	5

Course requirements for the **minor in organizational communications** involve twenty-four quarter hours including:

COM-200 Persuasive Theory	5
COM-223 Group Discussion	3
COM-323 Organizational Communication	3
COM-325 Interviewing	3
COM-331 Communication in the Info. Age	3
COM-406 Leadership	3
MGMT-350 Prin. of Organization and Management	4

Course requirements for the **minor in platform arts** involve twenty-six quarter hours including:

COM-123 Voice and Diction	3
COM-141 Introduction to Dramatic Art	3
COM-210 Advanced Public Speaking	5
COM-223 Group Discussion	3
COM-241 Fundamentals of Oral Interpretation	5
COM-243 Principles of Acting	3
COM-343 Principles of Play Directing	4

Course Descriptions

Broadcasting

RTV-101 Introduction to Broadcasting--A 3 hours

Introduction to the beginning, growth, and regulation of broadcasting. The structure of broadcasting, current criticism of the media, and the use of broadcasting by Christians are also discussed. Broadcasting majors must take the course concurrently with Audio Control Techniques.

RTV-102 Audio Control Techniques--A 2 hours

Instruction and training are offered in the operation of electronic equipment used in broadcasting. Emphasis is upon radio, with some television. The course is open to non-majors. Broadcast majors must take the course concurrently with RTV-101 Introduction to Broadcasting. (Fee: \$30)

RTV-103 Program Production--W 3 hours

The roles of director and sound engineer are emphasized in this course which is designed to introduce the student to the techniques of working with the other members of a production staff while developing various types of programs for broadcast. Prerequisite: RTV-102 Audio Control Techniques. (Fee: \$30)

RTV-104 Broadcast Announcing--Sp 4 hours

This course examines all types of announcing and applies each to use in both radio and television programs. Emphasis is on the use of the voice as a tool for communication of ideas on a one-to-one basis. (Fee: \$30)

RTV-151 Sportscasting--W 2 hours

The study of methods of sportscasting coupled with practice which concentrates on coverage of major sports including basketball, football, and baseball. Interviewing techniques and news formats for sportscasting will also be covered. Open to all students. (Credit/No Credit). (odd years)

RTV-201 Academic Research in Mediated Communication--A 2 hours

An introduction to research and paper writing in the field of media study. The course deals with library research tools used in academic research of the field, leading the student through the developmental stages of a research paper, including proposal, working bibliography, and paper outline.

RTV-212 Writing for the Electronic Media--A 3 hours

Covers the form and style of writing for the electronic media. Work in the course includes writing music continuity, advertising copy, and scripts for programs. (even years)

RTV-223 Introduction to Photography--Sp 3 hours

Acquaints students with basic principles of photography (light, exposure, composition, and darkroom skills) through lecture, laboratory sessions, and photographic assignments. (Fee: \$35)

RTV-260 Broadcast Clinic--A,W,Sp 2 hours

Hands-on experience in a broadcasting laboratory. The student is trained in the diverse areas of broadcasting, including production, traffic, news, sports, community service, and others. The course is repeatable to a total of six hours. Requires a minimum of six hours work in the clinic per week. Prerequisite: RTV-101 Introduction to Broadcasting. (Fee: \$30)

RTV-262 Television Camera Clinic--A,W,Sp 2 hours

"Hands-on" training with television equipment is designed to orient the student to most of the equipment normally used for video production. Six hours per week of work at assigned tasks are required. Prerequisite: RTV-320 Television Production. (Fee: \$30)

RTV-271 Introduction to Electronic Multimedia--Sp 3 hours

The merging of computers and audio and video media have created the field of multimedia computing. This course provides an overview of the technological changes which have created this electronic marriage of media and its applications, focusing on institutional and educational uses.

RTV-301 Broadcast Research Systems--W 3 hours

A study of methods of audience analysis, program surveys, and public service studies designed to acquaint the student with systems and procedures available to test station penetration and image. Prerequisite: RTV-101 Introduction to Broadcasting. (even years)

RTV-310 Advanced Audio Production--A 4 hours

A lecture/laboratory class designed for students with a strong commitment to production. The course seeks to develop critical judgment in audio production while sharpening studio production skills. Prerequisite: RTV-103 Program Production. (Fee: \$30)

RTV-320 Television Production--W 4 hours

Techniques and methods of television program production are taught from a producer's perspective. Basic television-related jobs are described and production definitions are explained. (Fee: \$30)

RTV-321 Electronic Field Production--Sp 4 hours

The methods of field production are taught from the perspective of director and producer. The course deals with preproduction planning, production in the field, and the electronic post-production (including videotape editing). (Fee: \$30)

RTV-331 Broadcast Advertising and Sales--Sp 4 hours

The sales structure of broadcasting, including the roles of salesmen, sales management, and sales promotion is examined. Research principles are applied to sales and the creative work in advertising, including copywriting, is explored. Prerequisite: RTV-301 Broadcast Research Systems. (Fee: \$30)

RTV-341 Issues and Ethics in Electronic Media--W 3 hours

This course examines ethical issues in the wide range of electronic media. After the establishment of a biblical ethical base, current criticisms of the role and performance of electronic media are evaluated. Topics include program content, advertising, privacy and intellectual property.

RTV-361 Advanced Broadcast Clinic--A,W,Sp 2 hours

An advanced workshop in audio production which may be repeated with others to a total of six hours. Prerequisite: RTV-310 Advanced Audio Production. (Credit/No Credit) (Fee: \$30)

RTV-362 Advanced Clinic in TV Production--W,Sp 2 hours

An advanced workshop in TV/video production which may be repeated with others to a total of six hours. Prerequisite: RTV-321 Electronic Field Production. (Credit/No Credit) (Fee: \$30)

RTV-365 Advanced Clinic in Graphics--A 2 hours

An introduction to the use of the computer for video graphics. Includes character generator work, as well as the use of paint, digitizing, and animation programs. (Fee: \$30)

RTV-366 Advanced Broadcast clinic: 3D Graphics and Animation--W 2 hours

Advanced use of the computers for video graphics. The emphasis is on three-dimensional modeling, rendering, and animation in 24-bit graphics.

RTV-371 Graphic Design for Multimedia Computing--A 3 hours

An introduction to computer graphics for video, this course presents principles of communication through graphic design. Topics include problems in transfer of computer graphics to video, specialized hardware for input and output on images, the legal and ethical aspects of digital imaging, and uses of presentation graphics.

RTV-375 Authoring for Interactive Multimedia--Sp 4 hours

This course covers the development of interactive multimedia programming for educational and training applications. Topics include research on the effectiveness of the interactive media, the team approach to planning for interactive projects, and the use of authoring software for control of various media by the computer.

RTV-401 Mass Media Law and Regulation--A 4 hours

Development of First Amendment protections and present legal requirements for media are studied. Emphasis is placed upon court decisions on First Amendment freedoms for both broadcast and print journalists, as well as regulations imposed upon the broadcaster.

RTV-402 Seminar in Religious Broadcasting--W 3 hours

Intensive study in religious broadcasting. Prerequisite: Permission of instructor.

RTV-407 Internship in Broadcasting--A,W,Sp,Su 5-15 hours

RTV-408 Independent Study in Broadcasting 1-4 hours

Prerequisite: Permission of instructor.

RTV-431 Broadcast Management--Sp 3 hours

Acquaints the student with the concerns facing the management of a broadcast station including legal requirements of the FCC, personnel management, and implementation of programming. Prerequisite: RTV-301 Broadcast Research Systems.

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RTV-464 Special Topics 3 hours

Available to advanced students who desire intense study in special areas of media.

RTV-482 Senior Project I Broadcasting 3 hours

RTV-483 Senior Project II Broadcasting 3 hours

Each student selects a topic of interest and prepares a major research paper which discusses their findings, or a major project. Taken for two quarters and overseen by an individual faculty mentor, this course culminates the student's academic development in the department. Prerequisites: COM-205 Communication Theory, COM-222 Research Research in Communications, senior standing.

Communication Arts

COM-110 Fundamentals of Speech--A,W,Sp 5 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-112 Honors Speech--A 5 hours

The course will expose the student to and prepare the student for competition in the three general areas of intercollegiate forensic competition: oral interpretation (prose, poetry, dramatic-duo), public speaking (persuasion, informative, communication analysis), and limited preparation events (impromptu and extemporaneous speaking). Prerequisite: Audition and permission of instructor.

COM-123 Voice and Diction--W 3 hours

This course is designed to assist the student in strengthening and maintaining the speaking voice. Areas of study include: voice physiology, effective breathing for speaking, voice quality and articulation. A brief examination of major vocal problems is also given.

COM-141 Introduction to Dramatic Art--Sp 4 hours

The course involves study of the history and development of theater: dramatic literature is considered as a reflection of man and culture during various periods, dealing with philosophy, religion, and socio-political thought. A brief look at acting skills is also offered.

COM-146 Dramatic Participation 1 hour

Students who perform in a Communications Arts directed play may receive one hour of credit to be applied to the quarter immediately following the specified production. Request for credit must be made to the director at the beginning of rehearsals for the production. (Credit/No Credit). Repeatable up to 4 hours.

COM-200 Persuasive Theory--W 5 hours

Methods of applying contemporary communication theories on attitudes, involvement, and change are combined with classical positions on the principles and methods of persuasive communications. Attention is given to the study, analysis, and delivery of persuasive speeches in a free society. The student is given background in the rhetorical criticism of logical, emotional, and ethical proofs. Interpersonal communication problems, methods, and theories are considered.

COM-205 Communication Theory--W 3 hours

An introduction and critical assessment of the theories which underlie interpersonal, group, organizational and mass communication practice and research.

COM-222 Research in Communications--A 4 hours

Forms and methodology for research and writing in communication are studied using empirical, historical-critical, and specialized formats. The course is required for majors choosing a research project.

COM-223 Group Discussion--W 3 hours

Group interaction and principles of directing effective groups are studied in an attempt to develop individual understanding of group processes. The different aims of discussion situations are emphasized.

COM-232 Theories of Mass Media--Sp 5 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.

COM-240 Stagecraft--A,W,Sp 2 hours

The theories and techniques of designing, building, painting, and lighting stage setting; organization and operation of production crews; theories and methods of makeup. (Credit/No Credit).

COM-241 Fundamentals of Oral Interpretation--A 5 hours

The study of literature through the medium of oral performance involves development in analysis and performance skills. Interpretation theories and techniques are presented dealing with poetry, prose, and dramatic literature.

COM-243 Principles of Acting--W 3 hours

Study in the principal theories and methods of acting is balanced with practice of stage movement and voice. Principles of physical and emotional character development are explored. Basic communication skills for the major and non-major are expanded.

COM-244 Advanced Forensics 3 hours

Advanced training for intercollegiate forensic competition. Focuses on literary and rhetorical criticism, extemporaneous speaking, and writing of original oratory. Repeatable to 6 hours.

COM-310 Advanced Public Speaking--W,Sp 5 hours

Emphasizes creative, logical, and audience-centered thinking which is needed for excellent public address. Students exhibit logical communication skills through writing and speaking assignments.

COM-312 Argumentation and Debate--A 5 hours

A study of principles and practices of debate, the course includes an overview of typical questions used in intercollegiate debate as well as the theory involved in logical preparation and refutation of a case. (Fee: \$20)

COM-313 Rhetorical Criticism--Sp 3 hours

To understand symbols in film, music, talking or speaking, rhetorical criticism searches for meaningful connections between message, context, and speaker. Theory and method of rhetorical criticism are taught as thinking and writing skills. (odd years)

COM-314 Intercultural Communication--W,Sp 4 hours

A survey of American cultural narratives reveals assumptions which, unconsciously or uncritically affirmed, often cause intercultural misunderstanding. Three models of culture and communication provide paradigms for understanding, managing, and problem-solving the intercultural encounter.

COM-315 Women in America--Sp 3 hours

"Women in America" surveys the unique voice which women have spoken with in the U.S. during the twentieth century. Students will read works which discuss contemporary issues which concern women, and will analyze them from the perspective of a Christian world-life view.

COM-322 Visual Communication--A 4 hours

Centers on the analysis of how we, as individuals and societies, shape, communicate, receive, and interpret visual images. Particular emphasis is given to visual and aesthetic theory as it applies to film and theater.

COM-323 Organizational Communication--Sp 3 hours

A study of the usage of communication for the organizational structure. The course focuses on major organizational theories, topics, and their communicative implications. In addition, the course focuses on the role of communication during conflict management, negotiation, crisis management, and small group process in the organizational context.

COM-324 Interpersonal Communication--Sp 3 hours

The course 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-325 Interviewing--W 3 hours

This course 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-326 Organizational Negotiation--W** 4 hours
 This course focuses on communication and the negotiation process in the organizational context. The course includes coverage of selected negotiation theories, selected elements of the negotiation process, and selected negotiation formats (e.g. salary negotiations, budget negotiations, collective bargaining, etc.)
- COM-331 Communication in the Information Age--Sp** 3 hours
 A 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.
- COM-333 Organizational Training--W** 4 hours
 Effective organizational training programs must be properly planned, implemented, and managed. The course 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-323 Organizational Communication.
- COM-343 Principles of Play Directing--Sp** 4 hours
 A practical study of play directing methods and techniques applied through class projects. Students will direct and perform play cuttings from a variety of dramatic literature types during the quarter. The class is especially helpful to education majors who will have to assist in educational theatre productions. No prerequisites.
- COM-345 Forensics/Individual Events--A,W,Sp** 1 to 2 hours
 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-346 Advanced Acting--Sp** 3 hours
 An advanced performance class designed to build upon knowledge and training learned in Principles of Acting. Attention will be given to scene study, acting theory, and audition principles. (odd years)
- COM-360 Teaching Speech--A,Sp** 2 hours
 To be taken by majors seeking certification in speech, the course involves discussion of methods directly related to the speech discipline; supplements EDUC-316 Principles of Teaching.
- COM-361 Teaching Creative Dramatics** 3 hours
 For elementary and secondary education majors seeking certification in speech. Acquaints students with creative dramatics and educational theatre productions for pre-K through 12. Includes role playing, improvisation, storytelling, theatre games, play therapy, pantomime, and drama production. Prerequisite: Admission to Education Department and/or major in communication arts.
- COM-362 Teaching Secondary Drama--W** 2 hours
 To be taken by majors seeking certification in speech education. The course is designed as an elective to meet the needs of students planning to teach secondary school drama classes and direct school plays and drama competitions. English education students may also be admitted to the course to meet the needs of English teachers who teach and direct secondary drama. Prerequisite: Introduction to Education block or permission of instructor.
- COM-365 Clinical Methods in Teaching Speech--A,W,Sp** 3 hours
 Students seeking certification for teaching speech will gain classroom experience. Twenty classroom hours will equal one credit hour. Assignments will be supervised by department staff members. (Credit/No Credit).
- COM-406 Organizational Leadership--Sp** 3 hours
 Leadership as a societal role is addressed through analysis of theory and observation of practitioners. A chronology of methodological approaches to the study of leadership is presented. Assigned reading and class processing of ideas and theories prepares the student for observation and evaluation of leaders in a variety of disciplines.
- COM-410 Advanced Argument--A** 4 hours
 Prepares students for intercollegiate debate. Focuses on research and the creation and development of argumentative claims. Class members compete in intercollegiate tournaments. Prerequisite: COM-312 Argumentation and Debate. (Fee: \$40)
- COM-411 History of Public Address--A** 5 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-413 Dramatic Literature--Sp** 4 hours
 A study of the historical development of dramatic styles, theory, criticism, and construction. Can be applied to meet English or speech requirements, but not both.
- COM-461 through COM-465 Speech Seminar** 3 hours
 Courses are available to the advanced student who desires intensive study in a particular area of speech communications.
- COM-461 Communication Ethics--Sp** 3 hours
 Journaling life experience, discussing American moral traditions, and performing biblical narratives are the activities by which students realize the ethical basis for communication and the communication basis for ethics. (even years)
- COM-464 Special Topics--A,W,Sp,Su** 3 hours
 Topics of important interest are examined on an 'as-needed' basis. Repeatable to six credit hours.
- COM-471 through COM-476 Independent Study in Speech** 1-4 hours
 Taken to secure an in-depth background in one of the areas of speech communication. Repeatable to a total of eight credit hours in the field. Prerequisite: Permission of instructor.
- | | |
|-----------------------------|-------------------|
| COM-471 Speech | COM-475 Drama |
| COM-472 Special Topics | COM-476 Forensics |
| COM-473 Oral Interpretation | |
- COM-481 Internship in Communications-A,W,Sp,Su** 5-15 hours
 Students are placed with professional organizations to gain experience in actual career situations. Internships depend upon availability.
- COM-482 Senior Project I - Research (Fee: \$25)** 3 hours
- COM-483 Senior Project II - Research**
 Students select a topic of interest and prepare a major research paper which discusses their findings. Taken for two quarters and overseen by an individual faculty mentor, this course culminates the student's academic development in the department. Prerequisite: COM-205 Communication Theory, COM-222 Research in Communications, senior standing. (Fee: \$25)
- COM-484 Senior Project - Recital I (Fee: \$25)** 3 hours
- COM-485 Senior Project - Recital II**
 Students desiring to fulfill their senior project requirement with a recital must declare that to their advisor before the end of the sophomore year. The required courses should be completed by spring of the junior year. A platform examination, required of all who wish to present a recital, is included in Fundamentals of Oral Interpretation. Students who do not meet required performance levels may request a second platform examination during the spring quarter of their junior year. All students who wish to transfer in college credit for this course must complete a platform examination the quarter they enter the major. Entrance and continuation in program are determined by faculty. Prerequisites: COM-123 Voice and Diction, COM-241 Fundamentals of Oral Interpretation, and COM-243 Principles of Acting. (Fee: \$25)

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Programs of Study

The Department of Education offers instruction with the purpose of providing distinctively Christian teachers for Christian, public, and missionary schools. The College is approved by the State of Ohio Department of Education for programs leading to the four-year Ohio teaching certificate in the following areas:

Early Childhood Education (grades K-3)

Elementary Education (grades 1-8)

Kindergarten-Elementary (grades K-8)

Secondary Education (grades 7-12) in:

- biological science
- bookkeeping/basic business
- business education
- chemistry
- English
- history
- mathematics
- music
- physical education
- political science
- science comprehensive
- social studies comprehensive
- speech

Special Education (K-12) in:

- behavioral handicapped
- developmentally handicapped
- specific learning disability

Special (K-12) in:

- health education
- music
- physical education
- Spanish

Endorsement in:

- reading
- TESL (Teaching English as a Second Language)
- typewriting

Certification

Public Schools

Students completing the specified program requirements qualify for teacher certification from the state of Ohio. Ohio participates in the Interstate Agreement on qualification of educational personnel and has entered into an implementation contract (reciprocity) with thirty-five states:

Alabama	Nebraska
Alaska	New Hampshire
California	New Jersey
Connecticut	New York
Delaware	North Carolina
District of Columbia	Oklahoma
Florida	Pennsylvania
Georgia	Rhode Island
Hawaii	South Carolina
Idaho	South Dakota
Indiana	Tennessee
Kansas	Utah
Kentucky	Vermont
Maine	Virginia
Maryland	Washington
Massachusetts	West Virginia
Michigan	Wisconsin
Montana	

Even though reciprocal certification contracts exist with the states listed, additional requirements may need to be met in order to obtain permanent certification. Also, state certification requirements often change from year to year. Therefore, students who wish to teach outside of Ohio should obtain a current description of certification requirements from the "Department of Education" in each state they plan to teach.

Christian Schools

Graduates qualify for certification by the Association of Christian Schools International (ACSI). This certification is recognized by Christian schools around the world.

Faculty

Merlin Ager, *Chairman*: Professor of Education. *Education*: B.A., Cedarville College, 1960; M.S., University of Wisconsin, 1962; graduate study, Miami University, summer of 1963; University of Wisconsin, summer of 1964; Ph.D., The Ohio State University, 1967. At Cedarville 1964-75, 1978-present.

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

W. Philip Bassett, Assistant Professor of Education. *Education*: B.S., Plymouth State College, 1977; M.A., Grace Theological Seminary, 1986; Ph.D., Andrews University, 1991. At Cedarville since 1991.

Eddie Baumann, Assistant Professor of Education. *Education*: B.S., University Wisconsin-Milwaukee, 1983; M.S., University Wisconsin-Milwaukee, 1987; Ph.D., University Wisconsin-Milwaukee, 1995. At Cedarville since 1993.

Omer Bonenberger, Associate Professor of Education. *Education*: B.A., Bob Jones University, 1960; M.A., Arizona State University, 1968; D.Ed., University of Maine, 1981. At Cedarville since 1981.

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

Dwayne Frank, Professor of Education. *Education*: B.A., Cedarville College, 1960; B.S., Central State University, 1960; M.S., College of Idaho, 1965; graduate study, Oregon State University, 1965; Ed.D., University of Idaho, 1973. At Cedarville since 1968.

Sharon Eimers, Associate Professor of Education. *Education*: B.S., Tennessee Temple University, 1975; M.Sp.Ed., University of Tennessee, 1981; Ed.D., University of Cincinnati, 1987. At Cedarville since 1981.

Timothy Heaton, Assistant Professor of Education. *Education*: B.A., Wittenberg University, 1973; M.A., Grace Theological Seminary, 1986; graduate study, University of Dayton, 1989. At Cedarville since 1987.

Anna Ruth Hille, Assistant Professor of Education. *Education*: B.A., Bryan College, 1955; B.S., Eastern Kentucky State, 1963; M.E., Xavier University, 1976. At Cedarville since 1987.

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

Career Opportunities

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

Christian school education
elementary school teacher
general education (1-8)
high school or middle school teacher
music education (K-8)
physical education (K-8)
physical education
special education
special music (K-12)

Teacher Education Program Admission Requirements

Students must apply for admission to the Teacher Education Program. To be admitted they must meet the following requirements one quarter before "methods." (These requirements apply for both elementary education majors and secondary education students as well--unless stated otherwise.)

1. Minimum cumulative GPA of 2.5 in all courses, including in teaching field courses and in professional education courses (2.3 for K-3 program).
2. Grade of "C" or above in General Education communications courses.

COM-110 Fundamentals of Speech

ENG-110,140 English Composition I,II

3. Grade of "C" or above in teaching field or concentration area courses.
4. Acceptable scores on PPST Examination: Reading: 171 and above; Mathematics: 173 and above; Writing: 171 and above.

5. Satisfactory completion of the following foundational courses ("C" or above):

EDSP-102 Education of Exceptional Children

EDUC-100 Introduction to Education

EDUC-101 Field Experience

EDUC-300 Learner and the Learning Process

6. Satisfactory completion of foundational education courses: (for elementary majors only)

EDUC-230 Arts and Crafts

EDUC-270 Audio Visuals (Elementary)

EDUC-280 Principles of Mathematics

EDUC-290 Handwriting

EDUC-320 Children's Literature

EDUC-370 Music for the Elementary School

GSCI-180 Introduction to Mathematics

PEO-299 Teaching Health and Physical Education

PYCH-270 Child Development

(or PSYCH-370 Adolescent Development)

7. Satisfactory ratings in field experiences (PSI, Introduction to Education Field Experience).
8. Recommendation of the department's admissions interview committee/Department of Education (based on resume, interview, and references).

Teacher Education Program Retention and Completion Requirements

1. Satisfactory GPA in all courses.
2. Satisfactory completion of methods courses.
3. Satisfactory completion of field and clinical experiences.
4. Satisfactory completion of student teaching.
5. Acceptable scores on the NTE Core Battery and NTE Specialty exams.

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Elementary Education

The **elementary education major** and certification prepares students to teach grades 1-8 in Christian and public schools. The curriculum includes thirty quarter hours of an academic concentration selected by each student. Twenty-eight concentrations are available. Course requirements, including the College's General Education requirements, involve:

<i>Biblical Education</i>	24
BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
BEGE-375 God and History	4
BEGE-376 God and the Church	4
<i>Communications</i>	15
ENG-110 English Composition I	5
ENG-140 English Composition II	5
COM-110 Fundamentals of Speech	5
<i>Humanities</i>	16
HUM-140 Introduction to the Humanities	5
EDUC-320 Children's Literature	3
EDUC-321 Philosophy of Education	3
Literature elective	5
<i>Mathematics</i>	10
EDUC-280 Principles of Mathematics	5
GSCI-180 Introduction to Mathematics	5
<i>Physical Education</i>	3
PEF-199 Physical Activity and the Christ. Life	2
Physical education elective	1
<i>Science</i>	15
GSCI-160 Principles of Earth and Space Science	5
GSCI-161 Principles of Physical Science	5
GSCI- Biology elective	5
<i>Social Science</i>	14-16
GSS-100 Foundations of Social Science	5
HIST-111 or 112 United States History	5
(or HIST/SOC-375 Social Movements	4)
GEO-250 Introduction to Geography	2
HIST/GEO- Non-western studies elective	3-4
<i>Foreign Language</i>	0-15

Two years of the same foreign language in high school or one year of a foreign language in college.

<i>Professional Education</i>	71-72
EDSP-102 Education of Exceptional Children	2
EDUC-100 Introduction to Education	2
EDUC-101 Field Experience	2
EDUC-201 Preliminary Student Involvement	0
EDUC-230 Arts and Crafts	2
EDUC-270 Audio Visuals (Elementary)	2
PYCH-270 Child Development	4
(or PYCH-370 Adolescent Development	4)
EDUC-290 Handwriting	0
PEO-299 Teaching Health and Physical Education	3
EDMU-370 Music for Elementary Teachers	2
EDUC-300 Learner and the Learning Process	4
EDUC-302 Teaching Thinking Skills	2
EDUC-321 Philosophy of Education	3
EDUC-371 Mathematics Methods	5
EDUC-372 Science Methods	3
EDUC-373 Social Studies Methods	3
EDUC-375 Clinical Experience	3
EDUC-391 Reading Methods	7
EDUC-393 Language Arts Methods	4
EDUC-394 Clinical Experience	3
EDUC-450 Supervised Student Teaching and Seminar	15-16



Education majors gain experience through student teaching in local schools.

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in Elementary Education (The order and scheduling is flexible provided prerequisites are taken first. Most courses are offered every quarter.)

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
COM-110 Fundamentals of Speech	5
EDUC-280 Principles of Mathematics	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSCI-160 Principles of Earth and Space Science	5
GSCI-180 Introduction to Mathematics	5
HUM-140 Introduction to the Humanities	5
PEF-199 P.A.C.L.	2
Biology elective	5
Physical education elective	1
Total	51

Second year:

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
EDSP-102 Education of Exceptional Children	2
EDUC-100 Introduction to Education	2
EDUC-101 Field Experience	2
EDUC-201 Preliminary Student Involvement	0
EDUC-270 Audio Visuals (Elementary)	2
EDUC-300 Learner and the Learning Process	3
EDUC-320 Children's Literature	4
PYCH-270 Child Development	4
(or PYCH-370 Adolescent Development	4)
EDMU-370 Music for Elementary Teachers	2
GSCI-161 Principles of Physical Science	5
GSS-100 Foundations of Social Science	5
HIST-111 United States History before 1865	5
(or HIST-112 United States History after 1865	5)
Literature elective	5
Total	53

Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
EDUC-230 Arts and Crafts	2
EDUC-302 Teaching Thinking Skills	2
EDUC-371 Methods and Materials for Mathematics	5
EDUC-372 Science Methods	3
EDUC-373 Social Studies Methods	3
EDUC-375 Clinical Experience	3
EDUC-391 Reading Methods	7
EDUC-393 Language Arts Methods	4
EDUC-394 Clinical Experience	3
GEO-250 Introduction to Geography	2
PEO-299 Teaching of Health and Physical Education	3
Concentration electives	4-6
Total	49-51

Fourth year:

EDUC-321 Philosophy of Education	3
EDUC-450 Supervised Student Teaching and Seminar	15-16
Social science elective (east)	3-5
Concentration electives	8-10
Electives	15
Total	44-49

Elementary Education Concentration Requirements

Concentration options include:

American Studies 30

American History electives	9-10
Geography electives	6
Political Science elective	5
American Literature elective	5
American government, American literature or history elective	5
(10 hours must be 300 level or above)	

Behavioral Science 30

Psychology electives	15-16
Sociology electives	15-16
(8-10 hours must be in 300 level or above in each category)	

Bible - Content 30

BEGE-172 Introduction to Bible Study	4
BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
Bible electives selected from:	3-5
Bible Geography	
Bible Interpretation	
Religion and Culture	
Bible history or literature electives	13-15
(12 hours must be in 300 level or above.)	

Bible - Languages 30

BEBL-251,252,253 Elementary Greek	15
BEBL-351,352,353 Intermediate Greek	9
BEBL-254,255 Elementary Hebrew	6

Biology 30

BIO-114 Introduction to Biology	5
BIO-115 General Zoology	5
BIO-134 General Botany	5
Electives	15
(15 hours must be 300 level or above)	

Chemistry 30

CHEM-151,152,153 General Chemistry I,II,III	12
CHEM-254 Quantitative Analysis	4
CHEM-357,358 or 359 Organic Chemistry I,II	4-5
Two electives (selected from):	10
CHEM-255 Analytic Chemistry	5
CHEM-356 Biochemistry	5
CHEM-359 Organic Chemistry	5
(10 hours must be 300 level or above)	

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Communication Arts	33
COM-110 Fundamentals of Speech	5
COM-123 Voice and Diction	3
COM-200 Persuasive Theory	5
COM-222 Research in Communication	4
COM-310 Advanced Public Speaking	5
COM-324 Interpersonal Communication	3
COM-331 Communication in the Information Age	3
COM-411 History of Public Address	5

Communications Arts - Performance	31
COM-110 Fundamentals of Speech	5
COM-123 Voice and Diction	3
COM-141 Introduction to Dramatic Arts	3
COM-146 Dramatic Participation (optional)	1
COM-223 Group Discussion	3
COM-240 Stagecraft	1-2
COM-241 Fundamentals of Oral Interpretation	5
COM-310 Advanced Public Speaking	5
COM-312 Argumentation and Debate	5

Crosscultural Studies	32
ANTH-180 Cultural Anthropology	5
BEPH-226 Religion and Culture	5
BEPT-242 Missions Survey	4
BEPT-345 Contemporary World Missions	4
COM-314 Intercultural Communication	4
GEO-250 Introduction to Geography	2
GEO-352 World Regional Geography - East	4
HIST-201,202, or 203 History of Civilization	4

General Science	30
BIO-114 Introduction to Biology	5
BIO-115 General Zoology	5
(or BIO-134 General Botany	5)
CHEM-154 Principles of Chemistry	5
GSCI-161 Principles of Physical Science	5
GSCI-166 Introduction to Physical Geology	5
GSCI-264 Introductory Astronomy	5

Health Science	30
PEH- Health Seminars	6
PEH-250 Community Health Concepts	3
PEH-313 School Health Program	4
PEH-316 Human Anatomy	5
PEH-317 Human Physiology	5
PEM-240 First Aid and Safety Education	3
PYCH-270 Child Development	4
(or PYCH-370 Adolescent Development	4)

History	30
HIST-111,112 United States History	10
HIST-201,202,203 History of Civilization	12
HIST-300 Introduction to Historiography	4
History elective	4-5
Non-Western history elective	4

Honors	30
HON-101 Classical Antiquity	5
HON-102 Renaissance and Reformation	5
HON-103 The Age of Revolutions	5
Honors electives	15

International Studies (Core)	32
ANTH-180 Cultural Anthropology	5
BEPH-226 Religion and Culture	5
BUS-291 International Business	3
COM-314 Intercultural Communication	4
GEO-250 Introduction to Geography	2
GEO-351 World Regional Geography - West	4
(or GEO-352 World Regional Geography - East	4)
HIST-203 History of Civilization	4
LING-308 Linguistics for Language Learning	5

Language Arts	31
ENG-140 Composition II	5
ENG-223 Advanced Composition	3
ENG-302 Creative Writing	3
ENG-305 The English Language	5
EDUC 322 Topics in Children's Literature	5
Literature electives	15

Literature	30
EDUC-322 Topics in Children's Literature	5
ENG-140 Composition II	5
Literature electives	20

Mathematics	30
GSCI-184 College Algebra	5
GSCI-185 Precalculus	5
MATH-303 Logic and Methods of Proof	5
Electives (selected from):	15
MATH-281,282,283 Analytic Geometry and Calculus	5
MATH-384 Probability and Statistics	5
MATH-394 Linear Algebra	5
MATH-396 Modern Algebra	5
MATH-480 Topics in Mathematics	2-5
<i>NOTE:</i> All mathematics emphasis students must audit	
EDUC-280 Principles of Mathematics.	

Mathematics/Computer Education	31
CIS-100 Introduction to Computers	2
CIS-124 Computer Programming—BASIC	3
CIS-221 FORTRAN Programming	4
CIS-224 COBOL Programming I	4
EDUC-303 Introduction to Computers in Education	3
MATH-281,282,283 Analytic Geom. and Calculus	15

Music	30
CDMU-260 Introduction to Conducting	3
GMUS-100 Orientation	0
GMUS-103 Program and Recital Attendance	0
EDMU-370 Music for Elementary Teachers	2
HLMU-231 Introduction to Music Literature	4
THMU-121,122,123 Theory I,II,III	9
THMU-131,132,133 Aural Skills I,II,III	6
Ensemble performance	3
Private performance	3

Philosophy and Religion	30
BEPH-220 Introduction to Philosophy	5
BEPH-221 Hist. of Ancient and Medieval Philosophy	5
BEPH-222 History of Modern Philosophy	5
BEPH-225 Ethics	5
BEPH-226 Religion and Culture	5
BEPH-322 Logic	5

Physics	30
*PHYS-271,272,273 General Physics I,II,III	15
PHYS-378,379 Modern Physics I,II	10
Physics elective	5
*Analytic Geometry and Calculus are prerequisites.	

Political Science	30
POLS-261 American National Government	5
POLS-262 American State and Local Government	5
Electives	20
(10 hours must be 300 level or above)	

Psychology	30
PYCH-160 General Psychology	5
PYCH-264 Psychology of Abnormal Behavior	5
Psychology electives	20
(10 hours must be 300 level or above)	

Social Science	33-34
ECON-233 Microeconomics	4
GEO-250 Introduction to Geography	2
GEO-351 World Regional Geography - West	4
(or GEO-352 World Regional Geography - East	4)
GSS-100 Foundations of Social Science	5
HIST-111 United States History before 1865	5
(or HIST-112 United States History after 1865	5)
HIST-201,202, or 203 History of Civilization	4
SOC-230 Principles of Sociology	5
Political science elective	4-5

Sociology	30
SOC-230 Principles of Sociology	5
Sociology electives	25
(10 hours must be 300 level or above)	

Spanish	30
SPAN-171,172,173 Elementary Spanish	15
SPAN-271,272 Intermediate Spanish	10
Electives (selected from)	5
SPAN-361 Spanish Composition	4
SPAN-362 Spanish Conversation	4
SPAN-364 Introduction to Hispanic Literature	5
SPAN-470 Independent Study	1

TESL	31
COM-314 Intercultural Communications	4
ENG-305 History of the English Language	5
ENG-307 Advanced English Grammar	5
LING-308 Linguistics for Language Learning	5
LING-309 Sociolinguistics	4
LING-360 Clinical Experience	2
LING-361 Practicum	3
SPAN-370 Teaching Foreign Language	3

Urban Studies	30
BIO-101 Environmental Biology	5
CRJU/SOC-230 Criminology	4
GEO-250 Introduction to Geography	2
GEO-351 World Regional Geography - West	4
POLS-262 American State and Local Government	5
SOC-230 Principles of Sociology	5
Political science elective	5

Course substitutions may be made with the approval of the chairman of the Education Department.



Cedarville student teachers receive input from both their college education professors and supervising classroom teachers during field experiences and student teaching.

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Special Education Program

The **special education program** prepares students to work as special education teachers in public and Christian schools around the world. To provide a solid educational foundation and enable students to have a variety of professional options, the special education program requires that students complete the requirements for certification in either elementary or secondary education along with the special education curriculum. The program offers three areas of special education specialization:

- Developmentally Handicapped (K-12)
- Severe Behavioral Handicapped (K-12)
- Specific Learning Disability (K-12)

Secondary education students must, in addition to the specialization and psychology concentration requirements outlined, take the following courses:

EDUC-371 Methods and Materials for Mathematics	5
EDUC-391 Reading Methods	7

All specializations require a concentration in psychology. Elementary education majors may use this as their concentration area. The psychology concentration requirements involve thirty-two quarter hours including:

PYCH-160 General Psychology	5
PYCH-261 Psychological Statistics	5
PYCH-270 Child Development	4
PYCH-363 Psychological Measurement	5
PYCH-365 Psychology of Learning	4
PYCH-366 Fundamentals of Counseling	5
PYCH-376 Cognition and Perception	4

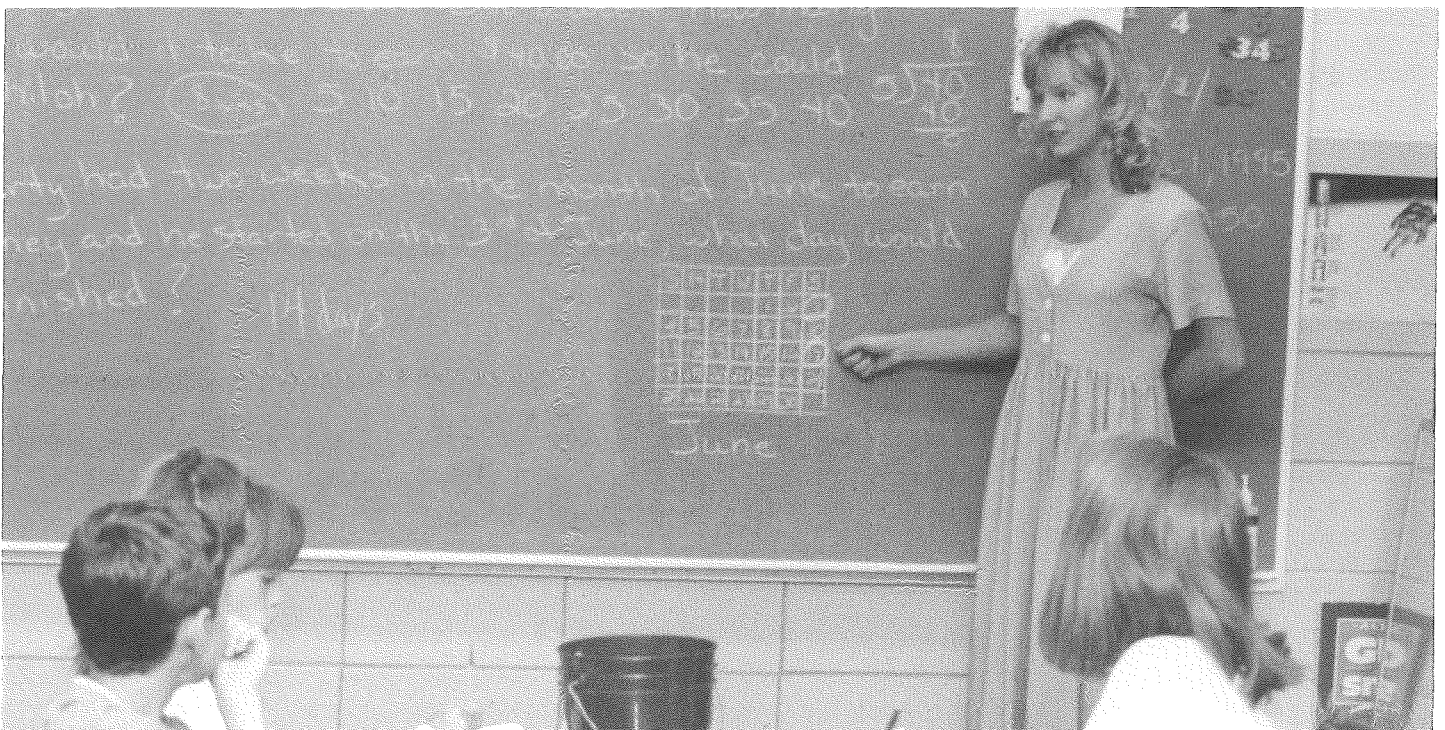
Admission Requirements

Students interested in the special education program must apply for admission to the teacher education program. A minimum cumulative GPA of 2.5 is required in all courses, including the teaching field and professional courses. All other requirements outlined for admission to the teacher education program are applicable to admission to the special education program.

Graduation Requirements

Completion requirements for the special education program are those of the teacher education program with two additions:

1. Students completing the special education program must complete the NTE core battery exam and NTE specialty exam as prescribed by the teacher education program and by the state of Ohio. In addition, they must complete the NTE specialty exam for each area of disability in which they desire certification.
2. Students completing the special education program must also complete the second student teaching experience in their area(s) of specialization. Students combining two specializations may divide their special education student teaching into two five week sessions--one for each specialization.



Special education students earn certification in elementary education as well as special education, enabling them to address the variety of needs they will find in their classrooms.

The developmentally handicapped specialization requirements involve a minimum of thirty quarter hours including:

EDSP-102 Education of Exceptional Children	2
EDSP-223 Mental Retardation and Developmental Disabilities	3
EDSP-321 Career Education and Occupational Training	2
EDSP-333 Instructional and Behavioral Management of Exceptional Individuals	3
EDSP-431 Assessment of Exceptional Children	4
EDSP-432 Communication and Consultation Skills for Special Educators	2
EDSP-451 Special Education Student Teaching	15
EDSP-465 Adaptive Curriculum, Materials, and Methods for Special Education	3

The severe behavioral handicapped specialization requirements involve an additional psychology cognate plus a minimum of thirty quarter hours including:

EDSP-102 Education of Exceptional Children	2
EDSP-224 Survey of Severe Behavioral Handicaps	3
EDSP-321 Career Education and Occupational Training	2
EDSP-333 Instructional and Behavioral Management of Exceptional Individuals	3
EDSP-431 Assessment of Exceptional Children	4
EDSP-432 Communication and Consultation Skills for Special Educators	2
EDSP-451 Special Education Student Teaching	15
EDSP-465 Adaptive Curriculum, Materials, and Methods for Special Education	3
Additional psychology cognate: PYCH-264 Psychology of Abnormal Behavior	5

The specific learning disability specialization requirements involve a minimum of thirty quarter hours including:

EDSP-102 Education of Exceptional Children	2
EDSP-225 Survey of Specific Learning Disabilities	3
EDSP-321 Career Education and Occupational Training	2
EDSP-333 Instructional and Behavioral Management of Exceptional Individuals	3
EDSP-431 Assessment of Exceptional Children	4
EDSP-432 Communication and Consultation Skills for Special Educators	2
EDSP-451 Special Education Student Teaching	15
EDSP-465 Adaptive Curriculum, Materials, and Methods for Special Education	3

A complete description of the General Education Requirements is found on page 31.

Suggested Four Year Curriculum for a Major in the Elementary Education Special Education Program (Learning Disabilities Specialization)

First Year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
COM-110 Fundamentals of Speech	5
EDUC-182 Mathematics for Elementary Teachers	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSCI-160 Principles of Earth and Space Science	5
HUM-140 Introduction to Humanities	5
PEF-199 P.A.C.L.	2
Biology elective	5
Physical education elective	1
Total	56

Second Year:

BEGE-272 Old Testament Survey	4
BEGE-274 New Testament Survey	4
EDMU-370 Music for Elementary Teachers	2
EDUC-183 Mathematics for Elementary Teachers	5
EDUC-230 Arts and Crafts	2
EDUC-320 Children's Literature	4
PEO-299 Teaching Health and Physical Education	3
GSCI-161 Principles of Physical Science	5
GSS-100 Foundations of Social Science	5
HIST-111 United States History before 1865	5
(or HIST-112 United States History after 1865	5)
PYCH-160 General Psychology	5
PYCH-270 Child Development	4
Literature elective	5
Total	53

Courses taken summer session of the sophomore or junior year:

EDSP-102 Education of Exceptional Children	2
EDUC-100 Introduction to Education	2
GEO-250 Introduction to Geography	2
Social science elective (east)	3-5

Third Year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
EDSP-321 Career Education and Occupation Training	2
EDSP-333 Instructional and Behavioral Management of Exceptional Individuals	3
EDSP-431 Assessment of the Exceptional Child	4
EDSP-225 Survey of Specific Learning Disabilities	3
EDUC-200 Audio Visual Methods	2
EDUC-290 Handwriting	0
EDUC-321 Philosophy of Education	3
PYCH-261 Psychological Statistics	5
PYCH-363 Psychological Measurement	5
PYCH-365 Psychology of Learning	4
PYCH-366 Fundamentals of Counseling	5
Total	48

Fourth year:

EDSP-432 Communication and Consultation Skills for Special Educators	2
EDSP-465 Adaptive Curricula Materials and Methods for Special Education	3
EDUC-371 Methods and Materials for Mathematics	5
EDUC-372 Science Methods	3
EDUC-373 Social Studies Methods	3
EDUC-375 Clinical Experience	3
EDUC-391 Reading Methods	7
EDUC-393 Language Arts Methods	4
EDUC-394 Clinical Experience	3
EDUC-450 Supervised Student Teaching and Seminar	15
Total	48

Taken fall quarter following the fourth year:

EDSP-351 Special Education Student Teaching	15
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Early Childhood Education Certification

Early childhood education certification prepares students to teach at the K-3 level. Students may obtain this certification by meeting the elementary education requirements and the following additions to or exceptions to those requirements:

1. Earn a minimum GPA of 2.3.
2. Earn a grade of "C" or above in the professional education area, concentration area, and communications courses.
3. Complete the following courses:

EDUC-250 Early Childhood Education	4
EDUC-251 Kindergarten Curriculum and Methods	5
EDUC-450 Supervised Teaching and Seminar (K-3 level)	15-16
4. Acceptable scores on NTE Core Battery and Specialty Exams.
5. The certification level in which a student enters the teacher education program is the level in which the student will graduate.

Endorsements

Students may prepare to teach reading and typewriting by taking additional courses beyond the standard elementary or secondary education certification requirements.

Course requirements for the **reading endorsement** involve eighteen quarter hours including:

EDUC-350 Reading in the Content Area	3
EDUC-352 Developmental Reading	5
EDUC-380 Reading: Diagonal and Remediation Tech ..	5
EDUC-391 Reading Methods (Elementary)	5-7
EDUC-394 Clinical Experience in Elementary Reading Methods (included in Elementary School Methods I)	

Course requirements for the **typewriting endorsement** involve eleven quarter hours including:

OTEC-183 Document Processing	4
OTEC-291 Word Processing	4



Education graduates often cite the extensive interaction they enjoyed with professors as the key to their professional development as teachers.

TESL (Teaching English as a Second Language)

The TESL program equips students to teach English to individuals whose native language is not English. Students who complete these course requirements along with those of another teaching field will qualify for State of Ohio certification.

Course requirements include thirty-one quarter hours:

COM-314 Intercultural Communications	4
ENG-305 History of the English Language	5
ENG-307 Advanced English Grammar	5
LING-308 Linguistics for Language Learning	5
LING-309 Sociolinguistics	4
LING-360 Clinical Experience	2
LING-361 Practicum	3
SPAN/LING-370 Teaching Foreign Language	3

Secondary Education

The **secondary education certification** program prepares students to teach specific subjects in grades 7-12 in public and Christian schools. Seventeen teaching fields are available. This program provides certification; it does not necessarily qualify as a major or lead to a degree. The requirements for a specific major must also be completed. The teacher education program admission requirements are also required for the secondary education student.

All secondary education students must receive credit for one mathematics course as a general education elective.

Secondary education course requirements involve forty-seven quarter hours including:

EDSP-102 Education of Exceptional Children	2
EDUC-100 Introduction to Education	2
EDUC-101 Field Experience	2
EDUC-201 Preliminary Student Involvement	0
EDUC-270 Audio Visuals (Secondary)	1
EDUC-300 Learner and the Learning Process	4
*EDUC-301 Tutoring for Secondary Education	1
EDUC-302 Teaching Thinking Skills (Secondary)	2
EDUC-316 Principles of Teaching	4
EDUC-317 Field Experience	4
EDUC-321 Philosophy of Education	3
**EDUC-350 Reading in the Content Areas	3
EDUC-450 Supervised Teaching and Seminar	15-16
Content Methods	2-3
Clinical Experiences	2

* Tutoring must be taken before Principles of Teaching.
 ** English majors must take ENG-352 Developmental Reading.

Secondary Education Teaching Field Requirements

Biological Science	73
BIO-114 Introduction to Biology	5
BIO-115 General Zoology	5
BIO-134 General Botany	5
BIO-200 General Ecology	5
BIO-306 Genetics	5
CHEM-151,152,153 General Chemistry I,II,III	12
CHEM-356 Biochemistry	5
CHEM-357 Organic Chemistry	5
GSCI-185 Precalculus	5
GSCI-440 Seminar	1
Electives (selected from the following):	20
BIO-212 Invertebrate Zoology	5
BIO-213 Vertebrate Zoology	5
BIO-236 Taxonomy of Seed Plants	5
BIO-238 Introductory Microbiology	5
BIO-311 Vertebrate Embryology	5
BIO-316 Human Structure and Function I	5
BIO-317 Human Structure and Function II	5
BIO-334 Plant Taxonomy and Ecology	5
BIO-336 Plant Physiology	5
BIO-340 Topics in Environmental Biology	5
BIO-405 Environmental Biology Internship	4-10
BIO-436 Radiation Biology	5
Bookkeeping Basic Business	73
(includes a major in Business Education)	
ACCT-211,212 Principles of Accounting	10
BUS-100 Business Prologue	1
BUS-211,212 Statistics	6
BUS-216 Business Communications	4
BUS-218 Business Law I	4
CIS-220 Computer Information Systems	3
ECON-233,234 Micro and Macroeconomics	8
FIN-171 Personal Finance	4
(or FIN-371 Financial Management	4)
GSCI-190 Calculus for Business	5
MGMT-350 Prin. of Organization and Management	4
MRKT-360 Principles of Marketing	4
PYCH-160 General Psychology	5
Area of specialization (selected from)	16-19
Accounting	16
ACCT-311,312,313 Intermediate Account.	9
Electives selected from:	
ACCT-315 Accounting Information Systems	3
ACCT-317 Cost Accounting	5
ACCT-411 Federal Income Tax	4
ACCT-412 Auditing	4
ACCT-413 Advanced Accounting	4
ACCT-415 Fund Accounting	4
ACCT-417 Advanced Cost Accounting	4



Field experiences allow education students to apply the teaching principles and develop the skills they will need as teachers.

Computer Information System (selected from)	16
CIS-124 Computer Programming--BASIC	3
CIS-221 FORTRAN Programming	4
CIS-224,225 COBOL Programming I,II	8
CIS-324 Systems Simulation	4
CIS-326 Systems Analysis	4
CIS-327 Systems Design	4
CIS-328 Database Development	4
CIS-421 Software Development	3
Economics (selected from)	16
ECON-313 Government and Business	4
ECON-331 International Money and Capital Markets ...	4
ECON-334 History of Economic Thought	4
ECON-335 Comparative Economic Systems	4
ECON-337 Labor Economics	4
ECON-339 Public Finance	4
Finance (selected from)	16
FIN-331 International Money and Capital Markets	4
FIN-273 Church Business Administration	4
FIN-373 Investments	4
FIN-377 Security Analysis and Portfolio Management ..	4
FIN-475 Financial Institution Administration	4
FIN-479 Case Problems in Financial Management	4
Management (selected from)	16
BUS-291 International Business	3
MGMT-351 Small Business Management	4
MGMT-352 Production Management	4
MGMT-353 Human Resources Management	4
MGMT-354 Management Science	4
MGMT-355 Organizational Behavior	4

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<i>Marketing (selected from)</i>	16
MRKT-361 Sales Management	4
MRKT-363 Marketing Research	4
MRKT-365 Consumer Behavior	4
MRKT-366 Principles of Advertising	4
MRKT-367 Industrial Marketing	4
MRKT-368 Nonprofit Marketing	4
MRKT-460 Marketing Management	4

<i>Office Technology (selected from)</i>	19
OTEC-171 Speedwriting II	4
OTEC-183 Document Processing	4
OTEC-285 Records Management	3
OTEC-290 Office Systems and Procedures I	4
OTEC-291 Word Processing	4

Comprehensive Business

See the Department of Business section.

Chemistry	85
CHEM-151,152,153 General Chemistry I,II,III	12
CHEM-254 Quantitative Analysis	4
CHEM-255 Analytical Chemistry	5
CHEM-357,358,359 Organic Chemistry I,II,III	14
CHEM-451,452,453 Physical Chemistry I,II,III	11
GSCI-440 Seminar	1
MATH-281,282,283 Analytic Geo., Calculus I,II,III	15
PHYS-271,272,273 General Physics I,II,III	15

<i>Chemistry electives (selected from)</i>	3
CHEM-356 Biochemistry	5
CHEM-454 Advanced Inorganic Chemistry	5
CHEM-455 Topics in Chemistry	2-5
CHEM-450 Independent Study in Chemistry	1-4

Recommended courses:

BIO-114 Introduction to Biology	5
MATH-387 Differential Equations	5

English

See the Department of Language and Literature section.

Health

See the Department of Health and Physical Education section.

History	48
HIST-111,112 United States History	10
HIST-201,202,203 History of Civilization	12
HIST-300 Introduction to Historiography	4
HIST-400,401or402 Research in History	5

<i>European history elective (selected from)</i>	4
HIST-304 Brit. Empire and Dev. Non-Western World	4
HIST-308 Russia and Soviet Union in 20th Century	4

<i>History electives (selected from)</i>	13
HIST-301 Renaissance Europe	4
HIST-302 Reformation Europe.....	4
HIST-306 History of Modern Germany	4

HIST-311 Early American History	5
HIST-312 Hist. of Recent and Contemporary America	4
HIST-404 Hist. of Christianity: Pre-reformation	4
HIST/POLS-405 Great Power Diplomacy Modern World	4
HIST-411 Interpretations in American History	5
HIST-490 Independent Study in History	1-4
HIST/POLS-375 Social Movements	4

Mathematics	65
GSCI-440 Seminar	1
MATH-281,282,283 Anal. Geo. and Calculus I,II,III	15
MATH-303 Methods of Logic and Proof	5
MATH- 441 Euclidean and Non-Euclidean Geometry	5
PHYS-271,272,273 General Physics I,II,III	15

<i>Mathematics electives (selected from)</i>	20
MATH-355 Discrete Math: Graph Theory	4
MATH-356 Discrete Math: Combinatorics	4
MATH-360 Number Theory	5
MATH-374 Complex Variables	5
MATH-384 Probability and Statistics	5
MATH-387 Differential Equations	5
MATH-388, 389 Advanced Calculus I,II	10
MATH-394 Linear Algebra	5
MATH-411 Applied Statics	3
MATH-445 Topology	5
MATH-461, 462 Abstract Algebra I,II	8
MATH-471, 472 Real Variables I,II	8

<i>Computer elective (selected from)</i>	3-5
CIS-124 Computer Programming--BASIC	3
CIS-221 FORTRAN Programming	4
CIS-420 Programming Languages	4
CIS-222 Structured Programming	4

Music

See the Department of Music section.

Physical Education

See the Department of Health and Physical Education section.

Political Science	56
HIST-111,112 United States History	10
PUAD-161 Introduction to Public Administration	4
POLS-261 American National Government	5
POLS-262 American State and Local Government	5
POLS-362 The Supreme Court	4
POLS-363 The Legislative Process	4
POLS-365 International Relations	5
POLS-367 Research Methodology	3
POLS-368 Data Analysis	5
POLS-459 Political Science Seminar I	2
POLS-460 Political Science Seminar II	3
POLS-461 Political Dynamics	3
HIST/POLS-468 Hist. of Political Thought - Ancient	3
(or HIST/POLS-469 Hist. of Political Thought-Modern	3)

Science Comprehensive

See the Department of Science and Mathematics section.

Social Science Comprehensive	90
BEGE-376 God and the Church	4
ECON-233,234 Micro and Macroeconomics	8
GEO-250 Introduction to Geography	2
GEO-351 World Regional Geography - West	4
GEO-352 World Regional Geography - East	4
HIST-111,112 United States History	10
HIST-201,202,203 History of Civilization	12
POLS-261 American National Government	5
SOC-230 Principles of Sociology	5

<i>Non-western elective (selected from)</i>	3-4
GEO-354 Geography of Africa	3
HIST-304 Brit. Empire and Dev. Non-Western World...4	
HIST-308 Russia and Soviet Union 20th Century	4
HIST-321 Hist. and Pol. Development of E. Asia	4
HIST-322 Middle East: History and Politics	4

Electives selected from at least one of the following areas of study:

Economics: 30 hours (including the eight hours required)

History: 45 hours (including the thirty hours required)

Political Science: 30 hours (including the five hours required)

Sociology: 30 hours (including the five hours required)

Speech

See the Department of Communication Arts section.

Spanish (K-12 certificate)(selected from)	75
SPAN-171,172,173 Elementary Spanish	15
SPAN-271,272 Intermediate Spanish	10
SPAN-361 Spanish Composition	4
SPAN-362 Spanish Conversation	4
SPAN-363 Chicano Literature	3
SPAN-364 Introduction to Hispanic Literature	5
SPAN-460 Hispanic Civilization	4-8
SPAN-461 Advanced Spanish Grammar	5
SPAN-462,463 Spanish American Literature	8
SPAN-464 Topics in Hispanic Culture	3
SPAN-470 Independent Study	1-4
SPAN-472 Masterpieces of Spanish Literature	4
SPAN-473 Masterpieces of Spanish Literature	4
SPAN-478 Cervantes	4

Advanced placement can be given for those students who achieve the appropriate scores on the Spanish placement test (up to 10 hours of either Elementary or Intermediate Spanish credit). Those who do test out of coursework are encouraged to earn extra credit at upper division levels through study-abroad programs (up to 27 quarter hours of credit for a six or nine week summer program at an accredited institution).



Students with international teaching ambitions can prepare for their dreams by doing their student teaching abroad. Sandy Costello, a 1995 education graduate, is pictured here with some of the students she met while student teaching at Black Forest Academy in Germany.

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Course Descriptions

EDUC-100 Introduction to Education--A,W,Sp 2 hours

An introduction to the major concepts of schooling. Prerequisites: ENG-110 English Composition I; ENG-140 English Composition II.

EDUC-101 Field Experience--A,W,Sp 2 hours

A four-week field experience in multicultural schools. (Fee: \$45)

EDUC-201 Preliminary Student Involvement 0 hours

Each student arranges five full, consecutive days in a Christian school during which he/she observes and participates in classroom activities. A follow-up report is required.

EDUC-230 Arts and Crafts in the Elementary School--A,W,Sp 2 hours

Philosophy, methods, and materials of art instruction. Emphasized creative work, using simple tools, and inexpensive materials.

Prerequisites: EDUC-100 Introduction to Education; EDUC-101 Field Experience; EDSP-102 Education of Exceptional Children; sophomore standing. (Fee: \$7)

EDUC-250 Early Childhood Education 4 hours

An introductory course designed to present an overview of early childhood education today. Includes a description of programs, current issues, and variables relating to the development, implementation, and evaluation of early childhood education programs.

Prerequisites: EDUC-100 Introduction to Education; EDUC-101 Field Experience; EDSP-102 Education of Exceptional Children.

EDUC-251 Kindergarten Curriculum and Methods 5 hours

A study of purposes, content, methods, and resources for teaching and learning in kindergarten. Field experience included. Prerequisites: EDUC-100 Introduction to Education; EDUC-101 Field Experience; EDSP-102 Education of Exceptional Children.

EDUC-270 Audio Visual Methods--A,W,Sp 2 hours for elementary majors 1 hour for secondary majors

An introduction to audio visual equipment, software, and operation with emphasis placed on operation. Effective selection and utilization is discussed to enhance the student's understanding of the "total" concept of media use. Secondary education majors must take this course with the Methods Block. Prerequisites: EDUC-100 Introduction to Education; EDUC-101 Field Experience; EDSP-102 Education of Exceptional Children.

EDUC-280 Principles of Mathematics--A,W,Sp 5 hours

An introduction to topics in contemporary mathematics designed with an exploratory approach. Topics include the following: patterns and relationships, statistics, probability, fractals, geometry, and LOGO. Prerequisite: GSCI-180 or permission of instructor.

EDUC-290 Handwriting--A,W,Sp 0 hours

Instruction in manuscript and cursive on paper and the blackboard. Includes principles of teaching handwriting to elementary children.

Prerequisites: EDUC-100 Introduction to Education; EDUC-101 Field Experience; EDSP-102 Education of Exceptional Children.

EDUC-300 Learner and the Learning Process--A,W,Sp 4 hours

A study of (1) the nature of the learner from a measurement perspective, (2) the nature of the learning process, including theories of learning, principles of learning, diagnosis of learning needs, measurement and evaluation of learning, and (3) the interaction of teaching and learning. Prerequisites: EDUC-100 Introduction to Education; EDUC-101 Field Experience; EDSP-102 Education of Exceptional Children.

EDUC-301 Tutoring for Secondary Education--A,W,Sp 1 hour

Twenty hours of tutoring in certification field(s) in area schools.

Constitutes a transition experience between Introduction to Education field experience and Principles of Teaching practicum.

May be repeated with permissions of advisor. Prerequisite: Admission to teacher education program.

EDUC-302 Teaching Thinking Skills--A,W,Sp 2 hours

Teaches creative and critical thinking skills. Methods of instruction for these skills will be developed for a variety of curricula and a diversity of age groups. Must be taken with Methods Block II (elementary majors) or EDUC 316,317 Principles of Teaching (secondary majors). Prerequisite: admission to teacher education program.

EDUC-303 Introduction to Computers in Education 3 hours

A general overview of hardware, software, and computer related information for classroom teachers. It is to equip pre-service teachers with the background necessary for the successful use of the computer as an instructional tool in the classroom. Prerequisite: EDUC-300 Learner and the Learning Process.

EDUC-305 Junior Practicum 5 hours

A ten-week field experience required of secondary music education students. The practicum must be completed prior to student teaching and is on a Credit/No Credit basis. Prerequisite: Admission to the teacher education program and EDMU-371 Music for Elementary Teachers, EDMU-372 Music for Secondary Teachers.

EDUC-310 Supervised Field Experience 1-5 hours

A one-to-five hour credit placement in an elementary or secondary classroom. The assignment is designed to give a transfer student or a student repeating other field experience an analogous experience to those for the existing teacher education classes.

EDUC-316,317 Principles of Teaching--A,W,Sp 8 hours

A combination of methods of teaching, clinical experience, and field experience in secondary schools with attention to combining the theory and practice of teaching and learning in each of the teaching fields. Prerequisite: EDUC-301 Tutoring for Secondary Education; Admission to the teacher education program.

Corequisites: EDUC-270 Audio Visual Methods (for secondary majors); EDUC-302 Teaching Thinking Skills. (Fee: \$50)

EDUC-320 Children's Literature--A 3 hours

A survey of the early history, major types, and modern trends of literature for children from preschool through grade eight. Social and personal value of literature is studied. Prerequisites: EDUC-100 Introduction to Education; EDUC-101 Field Experience; EDSP-102 Education of Exceptional Children.

EDUC-321 Philosophy of Education--A,W,Sp 3 hours

A critical analysis of educational philosophies and their impact on Christian educational philosophy. Prerequisite: Admission to teacher education program, junior status, or permission of instructor.

EDUC-322 Topics in Children's Literature--A 5 hours

An overview of current topics and trends in children's literature. May be credited toward the language arts and literature concentration areas for elementary education. Prerequisite: EDUC-320 Children's Literature.

EDUC-350 Reading in the Content Area--A,W,Sp 3 hours

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 provide increased comprehension of the textual material of the disciplines represented in this class. Prerequisite: Admission to the teacher education program.

EDUC-352 Developmental Reading 5 hours

Includes basic philosophies, current practices, testing, and evaluation for reading disabilities and corrections; and materials and methods utilized in the teaching of reading in the secondary schools. Laboratory and field experiences are included. Prerequisite: Admissions to the teacher education program. (Fee: \$25)

EDUC-361 Linguistics Practicum 3 hours

Independent teaching of ESL under general supervision of master teacher. (Fee: \$25)

- Elementary Methods II--A,W,Sp** 14 hours
EDUC-371 Methods and Materials for Mathematics 5 hours
EDUC-372 Science Methods 3 hours
EDUC-373 Social Studies Methods 3 hours
EDUC-375 Clinical Experience 3 hours

An introduction to the objectives, skills, instructional strategies, teaching aids, and resource materials for teaching mathematics, science, and social studies in the elementary schools. Clinical field experiences provide theory-driven application. Prerequisites: Admission to teacher education program. Corequisite: Elementary Methods II. (Fee: \$30)

- EDUC-380 Reading: Diagnostic and Remediation Techniques** 5 hours
 Experience in the use of formal and informal testing to diagnose various types of developmental and remedial reading problems. Emphasis upon individual assessment techniques in identification, testing, and causation of reading difficulty. Experience in the techniques of tutoring pupils having reading problems. Development of instructional strategies of diagnostic teaching. Prerequisite: EDUC-350 Reading in the Content Area; or EDUC-352 Developmental Reading; or EDUC-391 Reading Methods.

- Elementary School Methods I--A,W,Sp** 14 hours
EDUC-391 Reading Methods 7 hours
EDUC-393 Language Arts Methods 4 hours

An introduction to the objectives, skills, teaching aids, and resource materials for the teaching of reading and language arts. Implementation of skills required in a field experience. Prerequisite: Admission to the teacher education program. (Fee \$30)

- EDUC-394 Clinical Experience** 3 hours

An introduction to the objectives, skills, and strategies of instruction with a linguistic emphasis, and teaching aids, and resource materials, and implementation in field experience in the teaching of reading and language arts. Prerequisite: Admission to the teacher education program. (Fee: \$30)

- EDUC-400 Independent Study in Education** 1-5 hours
 Investigation of contemporary topics in education through reading, writing, or creative projects. Prerequisite: 15 quarter hours in education.

- EDUC-440 Special Student Teaching** 5-12 hours
 Occasionally, unusual situations arise which entail special provisions: e.g., summer school student teaching for experienced teachers, repeated experiences, etc.

- EDUC-450 Supervised Teaching and Seminar--A,W,Sp** 15-16 hours

Most directed teaching is done in nearby schools. Opportunities for placement on the mission field are available. One quarter must be reserved. The seminar includes a study of contemporary topics in education. Prerequisite: All required education courses. (Fee: \$120)

Special Education

- EDSP-102 Education of Exceptional Children--A,W,Sp** 2 hours

Explores the implications of P.L. 94-142 and 101-476 with an emphasis on the definitions and characteristics of exceptionalities under this law. Mainstreaming strategies are both discussed and observed. Corequisites: EDUC-100 Introduction to Education; EDUC-101 Field Experience.

- EDSP-223 Mental Retardation and Developmental Disabilities** 3 hours

Overview of the theories, research, and practices related to the education of individuals with mental retardation or developmental disabilities. Emphasis on causal factors, assessment, facets, and management of students with MR or DD. Prerequisite: EDSP-102 Education of Exceptional Children or concurrent enrollment or by consent of instructor. (odd years)

- EDSP-224 Survey of Severe Emotional Disabilities** 3 hours

Overview of the theories, research, and practices related to the education of individuals with severe emotional disabilities. Emphasis on the causal factors, assessment, facets, and management of students exhibiting severe emotional disabilities. Prerequisite: EDSP-102 Education of Exceptional Children or concurrent enrollment or by consent of instructor.

- EDSP-225 Survey of Learning Disabilities** 3 hours

Overview of theories, research, and practices related to the education of individuals with specific learning disabilities. Emphasis on causal factors, assessment, facets, and management of students with specific learning disabilities. Prerequisite: EDSP-102 Education of Exceptional Children or concurrent enrollment or by consent of instructor.

- EDSP-321 Career Education and Occupational Training for Exceptional Individuals** 2 hours

Role of occupational training in the curriculum; relationships with the world of work; problems of organizing and administering; methods and techniques used in developing occupational interests and abilities at various levels. Field/clinical experience required.

- EDSP-333 Instructional Motivation and Behavior Management of Exceptional Individuals** 3 hours

Learning theory, motivation, and behavioral approaches to management of the social and academic behavior of technique for exceptional individuals. Prerequisite: Admission to teacher education program or consent of instructor.

- EDSP-431 Assessment of Exceptional Children** 4 hours

Course will aid students in learning to administer and interpret formal and informal educational assessment and communicate this assessment data to parents and colleagues. Prerequisite: PSYCH-363 Psychological Assessment; PSYCH-261 Psychological Statistics.

- EDSP-432 Communication and Collaboration Skills for Special Education** 2 hours

Techniques of collaboration, consultation needed to enhance communication with exceptional individuals, parents, educational team members, and other professionals. Prerequisites: EDSP-431 Assessment of Exceptional Children or concurrent enrollment.

- EDSP-451 Special Education Student Teaching--A,W,Sp** 15 hours

Directed teaching in area schools in specific learning disability, severe behavioral handicapped, and developmentally handicapped settings. Ten full weeks required for one or two specializations. Prerequisite: All required special education courses. (Fee: \$120)

- EDSP-465 Adaptive Curriculum, Methods and Materials for Exceptional Students** 3 hours

Introduction to the curriculum and intervention strategies and types of instructional materials and educational technology used with students with mild to moderate handicapping conditions. Prerequisite: Elementary Methods I and II.

96 Engineering

Purpose

The Cedarville College engineering program blends the academic subjects required of all nationally accredited engineering schools with practical hands-on experience necessary to become a productive engineer. The curriculum, consistent with some of the latest engineering education concepts, introduces freshman to CAD (Computer Aided Design) and Digital Logic Design. This approach provides students with early insight into subsequent theory and practical exercises.

The program takes advantage of the rich technical environment in the surrounding community by providing frequent opportunities for interaction with engineers working on the latest aerospace, automotive and electronics technology. Involvement in the student engineering societies and on teams participating in national student competitions is encouraged.

Programs of Study

The Department of Engineering offers two programs of study which lead to the Bachelor of Science in Electrical Engineering (B.S.E.E.) degree and the Bachelor of Science in Mechanical Engineering (B.S.M.E.) degree.

Students interested in studying engineering but uncertain of the specific engineering major, have until the spring quarter of the sophomore year to choose electrical or mechanical engineering as a major. The curriculum of each program is designed so that all engineering students take the same courses during the first five quarters. Faculty advisors, the Career Services Office, and engineering field trips represent a few of the resources available to students contemplating which engineering major to choose.



First year engineering students apply and develop their design skills by making cardboard canoes and racing them across Cedar Lake during Homecoming Weekend.

Accreditation

The BSEE and BSME programs are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (EAC/ABET).

Department Academic Requirements

New students

Creative students who enjoy and excel in science and mathematics courses have the highest potential for careers as engineers. Entering students are required to have an ACT composite score of at least 22 (or an SAT of at least 1010) in order to declare an engineering major. Students who do not meet this standard or do not demonstrate equivalent competency may request admission to the department on a provisional status.

To prepare for engineering, students should take a college preparatory curriculum which includes:

- 4 units of English
- 4 units of mathematics (algebra, geometry, trigonometry, and advanced mathematics)
- 4 units of science (physical science, biology, chemistry, and physics)
- 3 units of social science
- 2 units of a single foreign language

Students should take electives in computers and a programming language such as BASIC, PASCAL, C, or FORTRAN when possible.

Retention Requirement

Earn an overall cumulative grade point average of 2.0 by the end of the sophomore year (prior to the completion of the 109 quarter hours specified in the engineering curriculum).

Graduation Requirements

1. Earn a cumulative grade point average of 2.0 or better in all engineering courses.
2. Take the Fundamentals of Engineering Examination.
3. Meet the graduation requirements specified by the College.

Faculty

Charles Allport, Director of Engineering Programs; Associate Professor of Mechanical Engineering. *Education:* B.S., United States Air Force Academy, 1962; M.A., George Washington University, 1963; M.S.E., Arizona State University, 1965; Registered Professional Engineer, 1970. At Cedarville since 1990.

Lawrence Zavodney, *Chairman*; Associate 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. At Cedarville since 1992.

Robert Chasnov, Associate Professor of Mechanical Engineering. *Education:* B.S., Rensselaer Polytechnic Institute, 1978; M.S., University of Illinois, 1980; Ph.D., University of Illinois, 1983. At Cedarville since 1991.

Keith Francis, Assistant Professor of Electrical Engineering. *Education:* B.S.E.E., United States Air Force Academy, 1976; M.Eng.E., Cornell University, 1984; all work completed for Ph.D. except dissertation, University of Dayton. At Cedarville since 1991.

Garth Frazier, Assistant Professor of Electrical Engineering. *Education:* B.S.E.E., Mississippi State University, 1986; M.S.E.E., Mississippi State University, 1989; Ph.D., Ohio University, 1993. At Cedarville since 1994.

Harwood Hegna, Associate 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, 1990. At Cedarville since 1992.

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

Robert Laramore, Assistant Professor of Electrical Engineering. *Education:* B.S.E.E., University of Missouri at Rolla, 1973; M.S.E.E., University of Missouri at Rolla, 1975; Registered Professional Engineer, 1978. At Cedarville since 1992.

Thomas Thompson, Assistant 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. At Cedarville since 1995.

Rolan Polsdorfer, Instructor of Electrical Engineering. *Education:* B.S.E.E., University of Toledo, 1960. At Cedarville since 1992.

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

Technical Support Staff

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

Jonathan Gain, Electrical Engineering Technician. *Education:* B.S.E.T., LeTourneau University, 1968; E.I.T., 1969. At Cedarville since 1992.

Career Opportunities

Engineers are found in leadership positions in a variety of settings. They work at all stages of developing ideas into products: research, development, design, construction, production, operations, marketing, sales, and management. In this era of rapid technological change, an engineering education serves our society well. In the decades ahead, society's needs and problems--such as fossil fuel depletion and alternative energy sources, transportation, manufacturing, research, pollution, preservation of the environment, and world hunger--will call for engineering contributions on a scale not previously experienced.



The 1995 Supermileage Team designed and drove their car to achieve 709 miles per gallon, placing Cedarville third in North America at SAE International's Supermileage Competition held at the Eaton Proving Grounds in Marshall, Michigan.

98 Engineering

Electrical Engineering

Course requirements are comprised of the following and may be modified by the department chairman.

ENGR-101 Introduction to Engineering Design	3
ENGR-171 Introduction to Engineering Graphics	3
ENGR-191 Digital Logic Design	4
ENGR-274 Mechanics I - Statics	4
ENGR-275 Mechanics II - Dynamics	5
ENGR-280 "C" Programming	3
ENGR-302 Circuits I	4
ENGR-303 Circuits II	4
ENGR-311 Electronics I	5
ENGR-312 Electronics II	5
ENGR-316 Microprocessors	4
ENGR-318 Linear Systems	5
ENGR-321 Electronics Laboratory I	1
ENGR-322 Electronics Laboratory II	1
ENGR-333 Electromagnetics	5
ENGR-347 Feedback Control Systems	5
ENGR-351 Thermodynamics I	4
ENGR-421 Electrical Design	4
ENGR-422 Electrical Design Laboratory	3
ENGR-432 Communications Theory	4
ENGR-461 Senior Design I	5
ENGR-462 Senior Design II	5
¹ ENGR-480 Professional Ethics	4
ENGR-495 Senior seminar	1
Engineering electives, two 300 or 400 level courses	6
one 400 level course	3

Additional required cognates include:

CHEM-158 Chemistry for Engineers	5
² MATH-281,282,283 Anal. Geo. and Calc. I,II,III	15
MATH-387 Differential Equations	5
MATH-388 Advanced Calculus I	5
³ PHYS-271,272,273 General Physics I,II,III	15
Mathematics elective	5
Chosen from ENGR-320 Probability and Random Process for Engineers, MATH-394 Linear Algebra or MATH-450 Complex Variables.	

¹satisfies the General Education elective requirement in humanities

²satisfies the General Education requirement in mathematics

³satisfies the General Education requirement in physical science

Electrical Engineering Major Curriculum Summary

Proficiency requirements	0-8
Other General Education requirements	71
Electrical Engineering requirements	100
Additional required cognates	50
Total (minimum, not including proficiency)	221

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in Electrical Engineering

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
CHEM-158 Chemistry for Engineers	5
COM-110 Fundamentals of Speech	5
ENG-110 Composition I	5
ENG-140 Composition II	5
ENGR-101 Introduction to Engineering Design	3
ENGR-171 Introduction to Engineering Graphics	3
ENGR-191 Digital Logic Design	4
MATH-281,282,283 Calculus I,II,III	15
PEF-199 P.A.C.L.	2
PHYS-271 General Physics I	5
Total	60

Second year:

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
ENGR-274 Mechanics I - Statics	4
ENGR-275 Mechanics II - Dynamics	5
ENGR-280 "C" Programming	3
ENGR-302 Circuits I	4
HUM-140 Introduction to the Humanities	5
MATH-388 Advanced Calculus I	5
MATH-387 Differential Equations	5
PHYS-272,273 Physics II,III	10
Mathematics elective	5
Total	54

Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
ENGR-303 Circuits II	4
ENGR-311,312 Electronics I,II	10
ENGR-316 Microprocessors	4
ENGR-318 Linear Systems	5
ENGR-321,322 Electronics Laboratory I,II	2
ENGR-333 Electromagnetics	5
GSS-100 Foundations of Social Science	5
Engineering elective	3
History elective	4
Literature elective	5
Total	55

Fourth year:

ENGR-347 Feedback Control Systems	5
ENGR-351 Thermodynamics I	4
ENGR-421 Electrical Design	4
ENGR-422 Electrical Design Laboratory	3
ENGR-432 Communications Theory	4
ENGR-461,462 Senior Design I,II	10
ENGR-480 Professional Ethics	3
ENGR-495 Senior Seminar	1
Biology elective	5
Engineering electives	6
Physical education elective	1
Social science elective	5
Total	52

Mechanical Engineering

Course requirements are comprised of the following and may be modified by the department chairman.

ENGR-101 Introduction to Engineering Design	3
ENGR-171 Introduction to Engineering Graphics	3
ENGR-191 Digital Logic Design	4
ENGR-221 FORTRAN Programming	2
ENGR-250 Numerical Methods in Engineering	4
ENGR-274 Mechanics I - Statics	4
ENGR-275 Mechanics II - Dynamics	5
ENGR-276 Mechanics III - Strength of Materials	4
ENGR-290 Engineering Economy	2
ENGR-302 Circuits I	4
ENGR-310 Electronics and Instrumentation	4
ENGR-337 Principles of Automatic Control	4
ENGR-341 Properties of Engineering Materials	4
ENGR-351 Thermodynamics I	4
ENGR-352 Thermodynamics II	4
ENGR-360 Fluid Mechanics	5
ENGR-365 Heat Transfer	4
ENGR-371 Kinematics and Design of Machines	4
ENGR-381 Mechanical Engineering Laboratory I	3
ENGR-382 Mechanical Engineering Laboratory II	3
ENGR-425 Mechanical Design	3
ENGR-461 Senior Design I	5
ENGR-462 Senior Design II	5
ENGR-471 Electrical Machines	4
¹ ENGR-480 Professional Ethics	4
ENGR-495 Senior Seminar	1
Engineering electives, two 300 or 400 level courses	6
one 400 level course	3

Additional required cognates include:

CHEM-158 Chemistry for Engineers	5
² MATH-281,282,283 Anal. Geo. and Calc. I,II,III	15
MATH-387 Differential Equations	5
MATH-388 Advanced Calculus I	5
³ PHYS-271,272,273 General Physics I,II,III	15

¹satisfies the General Education elective requirement in humanities

²satisfies the General Education requirement in mathematics

³satisfies the General Education requirement in physical science

Mechanical Engineering Major Curriculum Summary

Proficiency requirements	0-8
Other General Education requirements	71
Mechanical Engineering requirements	105
Additional required cognates	45
Total (minimum, not including proficiency)	221

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in Mechanical Engineering

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
CHEM-158 Chemistry for Engineers	5
COM-110 Fundamentals of Speech	5
ENG-110 Composition I	5
ENG-140 Composition II	5
ENGR-101 Introduction to Engineering Design	3
ENGR-171 Introduction to Engineering Graphics	3
ENGR-191 Digital Logic Design	4
MATH-281,282,283 Calculus I,II,III	15
PEF-199 P.A.C.L.	2
PHYS-271 General Physics I	5
Total	60

Second year:

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
ENGR-221 FORTRAN Programming	2
ENGR-250 Numerical Methods in Engineering	4
ENGR-274 Mechanics I - Statics	4
ENGR-275 Mechanics II - Dynamics	5
ENGR-276 Mechanics III - Strength of Materials	4
ENGR-290 Engineering Economy	2
ENGR-302 Circuits I	4
MATH-387 Differential Equations	5
MATH-388 Advanced Calculus I	5
PHYS-272,273 General Physics II,III	10
Physical education elective	1
Total	54

Third year:

BEGE-376 God and the Church	4
ENGR-310 Electronics and Instrumentation	4
ENGR-341 Properties and Processing of Materials	4
ENGR-351,352 Thermodynamics I,II	8
ENGR-360 Fluid Mechanics	5
ENGR-365 Heat Transfer	4
ENGR-371 Kinematics and Design of Machines	4
ENGR-381,382 Mechanical Engineering Laboratory I,II	6
GSS-100 Foundations of Social Science	5
HUM-140 Introduction to the Humanities	5
Engineering elective	3
Total	52

Fourth year:

BEGE-375 God and History	4
ENGR-337 Principles of Automatic Control	4
ENGR-425 Mechanical Design	3
ENGR-461,462 Senior Design I,II	10
ENGR-471 Electrical Machines	4
ENGR-480 Professional Ethics	4
ENGR-495 Senior Seminar	1
Biology elective	5
Engineering electives	6
History elective	4
Literature elective	5
Social Science elective	5
Total	55

100 Engineering

Course Descriptions

ENGR-101 Introduction to Engineering Design--A 3 hours

Introduction to the basic concepts and skills necessary for effective functioning as a Christian engineer in a diverse society; participation in group activities and field trips; design problems introducing the profession and history of engineering; introduction to ethical and moral issues in the application of engineering principles; computer applications including word processing, spreadsheets, TK Solver, and Working Model. Three lectures and one 90-minute laboratory per week. Design project required. (Fee: \$25)

ENGR-171 Introduction to Engineering Graphics--A,W,Sp 3 hours

Use and operation of a microcomputer system with AutoCad 12 software; basic techniques of drawing, editing, dimensioning, multiple views, sectioning, multiview projections, pictorial views, two- and three-dimensional modeling. One hour lecture and a three-hour laboratory per week. (Fee: \$20)

ENGR-191 Digital Logic Design--W,Sp 4 hours

Fundamentals of digital logic design, number systems, Boolean Algebra, Karnaugh maps, logic gate networks, combinational network design, flip flops, counters, state machines, sequential networks; circuits are designed in class and bread-boarded and evaluated in the laboratory. Three lectures and one 2-hour laboratory per week. (Fee: \$20)

ENGR-221 FORTRAN Programming--Sp 2 hours

Introduction to computer programming techniques using FORTRAN 77, application to science and engineering problems. Prerequisites: Familiarity with algebraic expressions.

ENGR-250 Numerical Methods in Engineering--Sp 4 hours

Computational methods for solving transcendental equations, ordinary differential equations, integration, and linear algebra; introduction to finite-difference, approximations and least-squares curve fits. Prerequisites: MATH-388 Advanced Calculus I, MATH-387 Differential Equations. Corequisite: ENGR-221 FORTRAN Programming or permission of instructor.

ENGR-274 Mechanics I - Statics--A,W 4 hours

Analysis of forces in isolated and connected rigid body systems, forces, moments, resultants, 2-D and 3-D equilibrium, centroids, moment of inertia, friction, trusses, frames, machines. Design project required. Three lectures and one problem solving session per week. Prerequisite: ENGR-171 Introduction to Engineering Graphics, PHYS-271 General Physics I, and MATH-282 Analytical Geometry and Calculus II. (Fee: \$10)

ENGR-275 Mechanics II - Dynamics--W 5 hours

Kinematic and kinetic analysis of particles, systems of particles, and rigid bodies; position, velocity, acceleration, frames of reference; Newton's laws, work, energy, impulse, momentum; conservative and non-conservative systems; vibration of single-degree-of-freedom systems. Design project required. Prerequisite: ENGR-274 Mechanics I. (Fee: \$10)

ENGR-276 Mechanics III - Strength of Materials--Sp 4 hours

Theoretical and experimental analysis of deformable bodies to applied loads; normal and shearing stress and strain, energy, torsion, flexure, deflection, combined stress, failure theories, and columns. Three lectures and one 2-hour laboratory per week. Design project required. Prerequisite: ENGR-274 Mechanics I. (Fee: \$20)

ENGR-280 "C" Programming--Sp 3 hours

Introduction to the "C" programming language; algorithms, data structures, unique capabilities, application to science and engineering problems.

ENGR-290 Engineering Economy--Sp 2 hours

Economic decision making in engineering; industrial management, cost, taxes, financing, ethics, alternative comparison, replacement, and uncertainty.

ENGR-302 Circuits I--Sp 4 hours

Basic circuit analysis using Ohm's law, Kirchoff's laws, independent sources, dependent sources, Thévenin and Norton equivalency, and source transformations, resistor, capacitor and inductor responses in RC, RL, and RLC circuits; brief introduction to AC circuits; computer simulations and bread-board circuits are designed and tested. Three lectures and one 2-hour laboratory per week. Design project required. Prerequisites: PHYS-272 General Physics II, MATH-387 Differential Equations. (Fee: \$20)

ENGR-303 Circuits II--A 4 hours

Phasor analysis of RLC circuits, sinusoidal steady state, mutual inductance, frequency response of operational amplifier circuits, Fourier and Laplace Transforms, and introduction to transfer functions. Computer simulations and bread-board circuits are constructed and evaluated in the laboratory. Design project required. Three lectures and one 2-hour laboratory per week. Prerequisite: ENGR-302 Circuits I. (Fee: \$30)

ENGR-310 Electronics and Instrumentation--A 4 hours

Fundamentals of harmonic signals, voltmeters, analog and digital oscilloscopes, integrated circuits, operational amplifiers, characteristics of amplifiers, characteristics of active and passive filters, PC-based data acquisition, and transducers and conditioning circuits to measure acceleration, velocity, displacement, temperature, and strain. Three lectures and one 3-hour laboratory per week. Prerequisites: ENGR-275 Mechanics II-Dynamics and ENGR-302 Circuits I. (Fee: \$30)

ENGR-311 Electronics I--W 5 hours

Introduction to semiconductor electronics: diodes, bipolar and unipolar transistors. Five lectures per week. Prerequisite: ENGR-303 Circuits II. Corequisite: ENGR-321 Electronics Laboratory I.

ENGR-312 Electronics II--Sp 5 hours

Integration of physics of solid-state electronic devices and basic electronic circuits; frequency response of low-level signal amplifiers, power amplifiers, multi-stage amplifiers, feedback, power supplies, filters, and oscillators. Prerequisites: ENGR-311 Electronics I. Corequisite: ENGR-322 Electronics Laboratory II.

ENGR-315 Power Electronics--A,W,Sp 3 hours

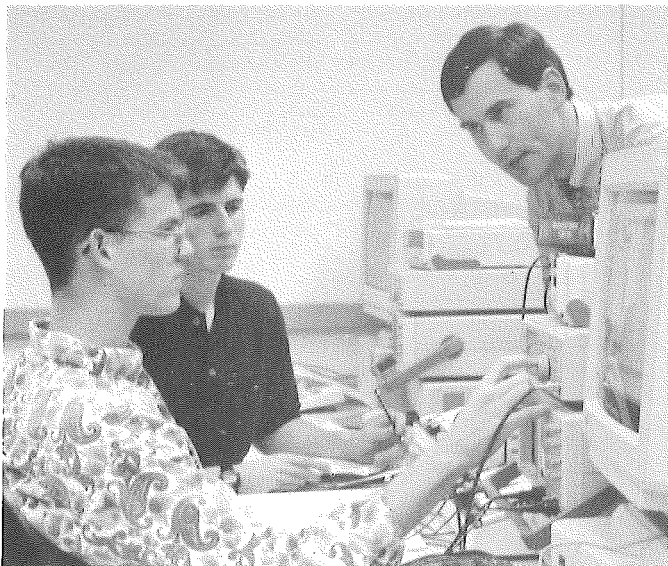
Fundamentals of power electronics including characteristics and application of semiconductor switches and device applications. Design project required. Prerequisites: ENGR-311 Electronics I, ENGR-321 Electronics Laboratory I. (Fee: \$15)

ENGR-316 Microprocessors--A 4 hours

Microprocessor characteristics, assembly language, memory layouts, peripheral devices, microcomputer structures, interface design, control and data communications. Three lectures and one 2-hour laboratory per week. Design project required. Prerequisite: ENGR-191 Digital Logic Design. (Fee: \$30)

ENGR-318 Linear Systems--W 5 hours

Introduction to linear time-invariant analysis of continuous and discrete time systems, Fourier, Laplace, and Z transforms, and state variable representations. Prerequisite: ENGR-303 Circuits II.



Engineering students use laboratories equipped with powerful computers and high-quality equipment. Because of the College's emphasis on teaching, students receive a great deal of personal attention from faculty members.

ENGR-319 Analog Filters--W 3 hours

An introduction to the theory, design, and implementation of passive and active analog filters; basic filter structures, sensitivity, passive network synthesis, operational amplifier limitations, multiple-amplifier filters, and filter realization methods. Prerequisite: ENGR-318 Linear Systems. (odd years)

ENGR-320 Probability and Random Processes for Engineers 5 hours

Sample points, sample spaces, probability, random variables, random vectors, statistical averages, estimation, linear transformations, spectral analysis and Gaussian processes. May be used to meet the mathematics requirement for electrical engineers. Prerequisite: MATH-283 Calculus III, ENGR-318 Linear Systems.

ENGR-321 Electronics Laboratory I--W 1 hour

Applications of the Electronics I course; solid-state electronic devices, emphasis on bread-boarding, testing, analysis, synthesis, and reporting. Design project required. Prerequisite: ENGR-303 Circuits II. Corequisite: ENGR-311 Electronics I. (Fee: \$30)

ENGR-322 Electronics Laboratory II--Sp 1 hour

Applications of the Electronics II course; design, bread-boarding, testing and analysis of circuits discussed in the lecture using bipolar junction and field effect transistors. Circuits include low-level signal amplifiers, power amplifiers, and multi-stage amplifiers as well as circuits involving feedback, filters, oscillators, and power supplies. Design project required. Prerequisite: ENGR-321 Electronics I Lab. Corequisite: ENGR-312 Electronics II. (Fee: \$30)

ENGR-333 Electromagnetics--A 5 hours

Development of vector calculus, Maxwell's equations, propagation of uniform plane waves, transmission lines, Smith Chart, wave guides, Laplace's and Poisson's equations. Four lectures with alternating 2-hour laboratory and recitation periods per week. Prerequisite: MATH-387 Differential Equations, MATH-388 Advanced Calculus I. Corequisite: ENGR-303 Circuits II. (Fee: \$15)

ENGR-337 Principles of Automatic Control--A 4 hours

Theoretical and experimental analysis of classical feedback control systems for mechanical engineers; modeling, transfer function formulation; frequency response, root locus, Bode plots, and servomechanisms. Three lectures and one 2-hour laboratory per week. Design project required. Prerequisite: ENGR-302 Circuits I. (Fee: \$20)

ENGR-341 Properties of Engineering Materials--A 4 hours

Introduction to the properties of metallic, ceramic, polymer, and composite materials; plastic deformation, strengthening, fracture, fatigue, corrosion, diffusion, equilibrium and non-equilibrium processes, phase diagrams, and electrical and magnetic properties; application to materials selection. Three lectures and one 3-hour laboratory per week. Prerequisite: ENGR-276 Mechanics III - Strength of Materials. (Fee: \$30)

ENGR-342 Principles of Physical Metallurgy 3 hours

Physical and mechanical properties of metals and alloys; crystal structure, phase equilibria, defects, strengthening mechanisms, and kinetics of reactions. Prerequisite: ENGR-341 Properties of Engineering Materials.

ENGR-343 Manufacturing Processes--W 3 hours

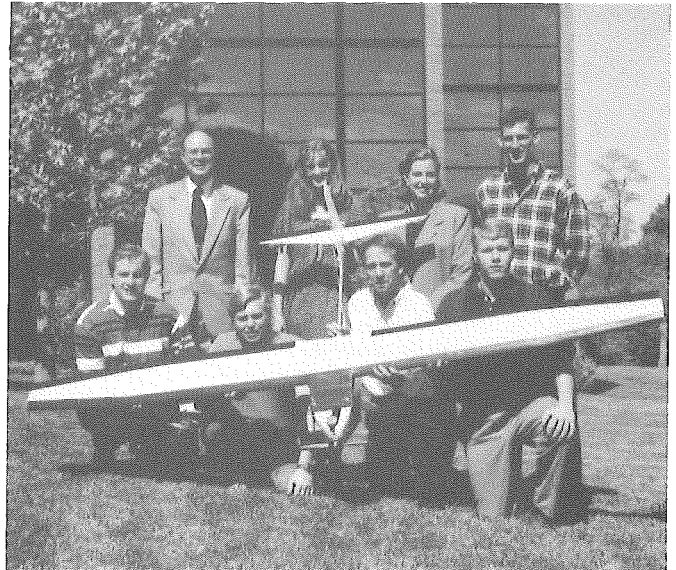
Contemporary materials processing: molding, casting, forming, machining, and hot and cold working; fundamentals of manufacturing, inspection techniques and quality assurance. Prerequisite: ENGR-341 Properties of Engineering Materials.

ENGR-344 Plastic and Composite Materials 3 hours

Properties and processing of plastics, resins, and adhesives. Rheology, creep-deformation history, and injection molding. Fiber-reinforced, carbon-carbon, and metal-matrix composites analyzed for strength, anisotropy, and applicability. Prerequisites: ENGR-341 Properties of Engineering Materials.

ENGR-347 Feedback Control Systems--A 5 hours

Analysis and design of continuous-time feedback control systems; modeling, transfer functions, state-variables; root-locus, frequency response, Bode plots, Nyquist criterion; stability robustness, compensator design for performance and robustness, PID, phase-lead, phase-lag, lead-lag, pole placement, state observers. Four lectures and one two-hour lab per week. Prerequisite: ENGR-318 Linear systems. (Fee: \$20)



Design competitions enable students to apply their design skills to real problems and interact with engineering students from other schools. The 1995 Aero Design Team built the plane pictured to lift a maximum cargo of twelve pounds at the SAE International Aero Design Competition held in Daytona, Florida.

ENGR-351 Thermodynamics I--A 4 hours

Introduction to engineering thermodynamics; properties of pure substances, work, heat, first and second laws of thermodynamics, energy and entropy. Prerequisites: CHEM-158 Chemistry for Engineers and PHYS-272 General Physics II.

ENGR-352 Thermodynamics II--W 4 hours

Continuation of ENGR-351 with specific application to power, refrigeration cycles, and combustion processes. Prerequisite: ENGR-351 Thermodynamics I and MATH-388 Advanced Calc. I.

ENGR-353 Internal Combustion Engines--Sp 3 hours

Development and design of piston engines and turbines, special design of combustion chambers, valve mechanism, and dynamic balancing. Prerequisites: ENGR-274 Mechanics I - Statics, ENGR-352 Thermodynamics II.

ENGR-356 VHASIC Hardware Description Language--W 3 hours

Design, testing, and verification of combinational logic circuits and finite-state machines using the VHASIC Hardware Description Language (VHDL); top-down design methodology, beginning with purely behavioral description decomposed into a structural description using basic logic gates. Three lectures and 1-hour laboratory per week. Prerequisite: ENGR-191 Digital Logic Design and ENGR-221 FORTRAN or ENGR-280 "C" Programming. (Fee: \$15) (even years)

ENGR-358 Advanced Digital Logic Design--A 3 hours

Survey of logic families, arithmetic circuits, advanced finite-state machine design and implementation, introduction to computer organization, controller implementations, jump counters, branch sequencers, and microprogramming; emphasis on rapid electronic prototyping and the effective use of advanced computer aided design tools for minimization, simulation, and implementation of digital circuits. Prerequisites: ENGR-191 Digital Logic Design, ENGR-302 Circuits I.

ENGR-360 Fluid Mechanics--W 5 hours

Basic concepts and fundamentals of subsonic fluid flows, introduction to boundary layers and transition to turbulence. Prerequisite: MATH-388 Advanced Calculus I, MATH-387 Differential Equations, ENGR-221 FORTRAN.

ENGR-365 Heat Transfer--Sp 4 hours

Introduction to conduction, convection, and radiation heat transfer; analytical and computational techniques. Design project required. Prerequisites: ENGR-250 Numerical Methods, ENGR-351 Thermodynamics I, ENGR-360 Fluid Mechanics.

102 Engineering

- ENGR-373 Electrical Machines for Electrical Engineering Majors--A** **3 hours**
Introduction to the principles of analysis and characteristics of AC and DC rotating machines and electromechanical devices; transformers, single- and three-phase motors and generators. Three lectures per week for 7 weeks and one 2-hour laboratory period each week for ten weeks. Prerequisite: ENGR-303 Circuits II. (Fee: \$20)
- ENGR-374 Kinematics and Design of Machines--Sp** **4 hours**
Introduction to analysis and synthesis of motion in mechanisms and planar linkages; velocity and acceleration, cams and cam design, gears, simple and compound gear trains; computer solution and simulation using TK Solver, Working Model, and text book software. Design project required. Prerequisite: ENGR-275 Mechanics II.
- ENGR-381 Mechanical Engineering Laboratory I--W** **3 hours**
Measurement of mechanical phenomena such as acceleration, force, pressure, temperature, fluid flow, viscosity, and heat transfer using transducers and PC-based data acquisition. Experiments using the wind tunnel, engine test cell, mechanics laboratory, and heat transfer laboratory are conducted during two 3-hour laboratories per week. Students design some of the experiments. Prerequisites: ENGR-250 Numerical Methods, ENGR-310 Electronics and Instrumentation. Corequisites: ENGR-352 Thermodynamics II, ENGR-360 Fluid Mechanics. (Fee: \$30)
- ENGR-382 Mechanical Engineering Laboratory II--SP** **3 hours**
Continuation of ENGR-381. Two 3-hour laboratories per week. Prerequisite: ENGR-381 Mechanical Engineering Laboratory I. Corequisite: ENGR-365 Heat Transfer. (Fee: \$30)
- ENGR-388 Vibrations** **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, Laplace Transform, dissipative systems; introduction to random, continuous, and non-linear vibrations; engineering applications. Prerequisites: ENGR-275 Mechanics II- Dynamics, ENGR-370 Electronics and Instrumentation, MATH-387 Differential Equations. (Fee: \$20)
- ENGR-389 Vibrations Laboratory** **1 hour**
Laboratory experiments to demonstrate and support ENGR-388 Vibrations; function and calibration of motion detection transducers, measurement of the frequency response function, impulse response, electrodynamic shakers, instrumentation, FFT and spectral analysis. Class meets 2 hours per week. (Fee: \$30)
- ENGR-392 Mechanical Engineering Internship** **1-3 hours**
An opportunity in which a mechanical engineering student works closely with an industrial advisor employed at an area firm. Specific attention is given to solving a particular problem(s) in that industry or firm by applying mechanical engineering design methodology. A faculty advisor assists in supervision of and approval of the internship, including assessment of the number of credit hours. A final report (approximately 7 pages per credit hour) describing the experience -- including the problem and solution -- is required. Three credit hours of engineering electives can be satisfied by three hours of internship. Prerequisite: junior or senior status and permission of faculty advisor.
- ENGR-394 Topics in Electrical Engineering** **3 hours**
Selected topics in electrical engineering at the 300 or 400 level; topics may include, but not limited to, electrooptics, solid-state devices, microprocessor applications, antenna theory or others presented by the faculty or requested by electrical engineering students. Prerequisite: permission of instructor. (odd years)
- ENGR-395 Topics in Mechanical Engineering** **3 hours**
Selected topics in mechanical engineering at the 300 or 400 level; likely candidates are extensions of present courses or lecture to teach theory to support development of design projects. Prerequisite: permission of instructor.
- ENGR-398 Independent Study in Engineering** **1-3 hours**
Opportunity to perform independent research or study 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. Three credit hours of engineering electives can be satisfied by three hours of independent study. Prerequisites: a major in engineering, permission of advisor, and junior status or above.
- ENGR-399 Project Design** **1-3 hours**
An elective course for students to get academic credit for extracurricular design work related to their ministry or design competitions. Cannot be used to satisfy engineering elective requirements. Prerequisite: Permission of the instructor.
- ENGR-411 Finite Difference Methods In Engineering** **3 hours**
Finite-difference approximations for derivatives and differential equations; consistency, stability, and truncation error; introduction to grid generation; applications of finite-difference methods to engineering problems. Prerequisite: ENGR-250 Numerical Methods in Engineering.
- ENGR-412 CMOS VLSI Design--Sp** **3 hours**
Fundamentals of CMOS VLSI design; circuit analysis, modeling, mask layout, simulation, and design verification; theoretical concepts and CAD tools used together for circuit design and design verification. VHDL used to verify and document designs. Three lectures and one 2-hour laboratory per week. Prerequisites: ENGR-312 Electronics II, and ENGR-356 VHSIC Hardware Description Language. (Fee: \$15) (even years)
- ENGR-416 Computer Architecture and Advanced Microprocessors--Sp** **3 hours**
Introduction to computer architecture and design survey of advanced microprocessor architectures. A microprocessor is designed and implemented using rapid electronic prototyping technology during the design project. Prerequisite: ENGR-316 Microprocessors. (odd years)
- ENGR-421 Electrical Design--A** **4 hours**
Design of electronic instruments with emphasis on analog and digital integrated circuits; students design and build prototype electronic devices for systems integration in ENGR-422. Prerequisites: ENGR-312 Electronics II, and ENGR-316 Microprocessors. (Fee: \$15)
- ENGR-422 Electrical Design Laboratory--W** **3 hours**
Design laboratory for the electrical design course; design, build, and analyze circuits built with analog and digital integrated circuits; final report required. Prerequisite: ENGR-421 Electrical Design. (Fee: \$30)
- ENGR-425 Mechanical Design--A** **3 hours**
Design of mechanical components to achieve a stated objective; load, deformation, reliability, failure theories, and cost analysis. Prerequisites: ENGR-341 Properties of Engineering Materials, ENGR-365 Heat Transfer, ENGR-374 Kinematics and Design of Machines, and ENGR-382 Mechanical Engineering Laboratory II. (Fee: \$25)
- ENGR-427 Digital Signal Processing** **3 hours**
Introduction to digital signal processing, review of continuous time-linear systems, application of Fourier series, spectral analysis, sampling theory, sampled spectrums, theory of discrete-time systems, realization of discrete time systems, frequency response of discrete time systems, design of FIR and IIR filters, and properties of the Fast Fourier Transform. Design project. Prerequisites: ENGR-318 Linear Systems and ENGR-221 FORTRAN or ENGR-280 "C" Programming.
- ENGR-431 Digital Systems Design** **4 hours**
Complex microprocessor architecture, machine language programming, software development, memory interface, input/output interface, and interrupts, emphasis on microprocessor applications. Three hours of lecture and two hours of laboratory per week. Prerequisite: ENGR-316 Microprocessors. (Fee: \$30)
- ENGR-432 Communications Theory--W** **4 hours**
Introduction to communications theory, modulation techniques, detection techniques, noise, and computer communications. Three lectures and one 2-hour laboratory per week. Design project required. Prerequisites: ENGR-303 Circuits II, ENGR-318 Linear Systems. (Fee: \$20)
- ENGR-435 Power Systems--W** **3 hours**
Principles of electrical power generation, transmission, and distribution, three-phase circuits, power system analysis, load flow, fault currents, system protection, and stability. Prerequisite: ENGR-333 Electromagnetics. (Fee: \$10) (even years)

ENGR-437 Advanced Communications and Networks--Sp **3 hours**

Performance of analog and digital communication systems and networks in the presence of noise; M-ary signals, signal space concepts, orthogonal signals; optimal receiver design; spread-spectrum communications; introduction to information theory. Prerequisites: ENGR-320 Probability and Random Processes for Engineers, ENGR-432 Communications Theory. (odd years)

ENGR-441 Introduction to Fracture Mechanics **3 hours**

Study of failure modes due to both static and dynamic loading; brittle fracture criteria, elastic behavior, stress fields around cracks, fatigue failure. Prerequisites: ENGR-341 Properties of Engineering Materials.

ENGR-445 Introduction to Finite Element Analysis **3 hours**

Problem formulation using calculus of variations and matrix theory, Rayleigh-Ritz method and methods of weighted residuals, potential operators, essential derivatives; development of the FEM and the steps to be followed, assembly of elements, imposition of boundary conditions, interpretation of results; experience using a commercial code. Prerequisites: ENGR-221 FORTRAN or ENGR-280 "C" Programming, ENGR-276 Mechanics III Strength of Materials, ENGR-250 Numerical Methods. (Fee: \$25)

ENGR-447 Digital Control Systems--W **3 hours**

Analysis and design of discrete-time sampled-data control systems, signal sampling, A/D and D/A conversion, quantization, z-domain transfer functions, transient response, frequency response, stability and performance of computer controlled systems, controller design. Prerequisite: ENGR-347 Feedback Control Systems.

ENGR-451 Propulsion **3 hours**

Principles of thrust production and compressible flow; thermodynamics of jet propulsion systems. Prerequisites: ENGR-352 Thermodynamics II, ENGR-360 Fluid Mechanics.

ENGR-460 Compressible Fluid Flow **4 hours**

Compressible flow of gases in engineering systems, isentropic flow in variable area passages, shock and expansion waves, flow with wall friction and heat transfer. Prerequisites: ENGR-250 Numerical Methods in Engineering, ENGR-351 Thermodynamics I, and ENGR-360 Fluid Mechanics.

ENGR-461 Senior Design I--W **5 hours**

Capstone design project for engineers. Each student accepts a design problem or proposes a design project to solve a particular problem and seeks sponsorship from an engineering faculty and (optionally) a third party interested in the solution of the problem; arranged with the faculty sponsor. Prerequisites for mechanical engineering students: ENGR-425 Mechanical Design and senior status in mechanical engineering. Prerequisites for electrical engineering students: ENGR-421 Electrical Design and senior status engineering. (Fee: \$45)

ENGR-462 Senior Design II--Sp **5 hours**

A continuation of ENGR-461 emphasizing prototyping, troubleshooting, design modifications, project finalization, reporting and oral presentation. Prerequisite: ENGR-461 Senior Design I. (Fee: \$45)

ENGR-466 Radiation and Solar Energy--A **3 hours**

Fundamentals of radiation heat transfer including shape factors, wave length dependence, and material properties. Applications to solar energy engineering and design problems. Prerequisite: ENGR-365 Compressible Fluid Flow. (even years)

ENGR-471 Electrical Machines--A **4 hours**

Introduction to the principles of analysis and characteristics of AC and DC rotating machines and electro-mechanical devices; transformers, single- and three-phase motors and generators. Three lectures and one 2-hour laboratory per week. Prerequisite: ENGR-310 Electronics and Instrumentation. (Fee: \$20)

ENGR-474 Dynamics of Machines **3 hours**

Dynamic analysis of machines and mechanisms; Newton's laws of motion, energy methods, force analysis, shaking forces, static and dynamic balancing, engine dynamics, multi-cylinder engines, cam dynamics. Prerequisite: ENGR-374 Kinematics and Design of Machines.

ENGR-476 Advanced Strength of Materials **3 hours**

Analysis of beams with non-symmetrical sections, non-circular torsion, beams on elastic foundations, failure theories, Mohr's circle for stress and strain, load-deflection analysis by energy methods. Prerequisites: ENGR-276 Mechanics III - Strength of Materials.

ENGR-480 Professional Ethics--Sp **4 hours**

Professional conduct, engineer-client relations, product liability, legal problems, and the Ethics Code established by the Engineering Profession studied from a Christian perspective; students explore problems encountered in the application of engineering practice within diverse cultures of the real world.

ENGR-488 Random Vibration and Signature Analysis **3 hours**

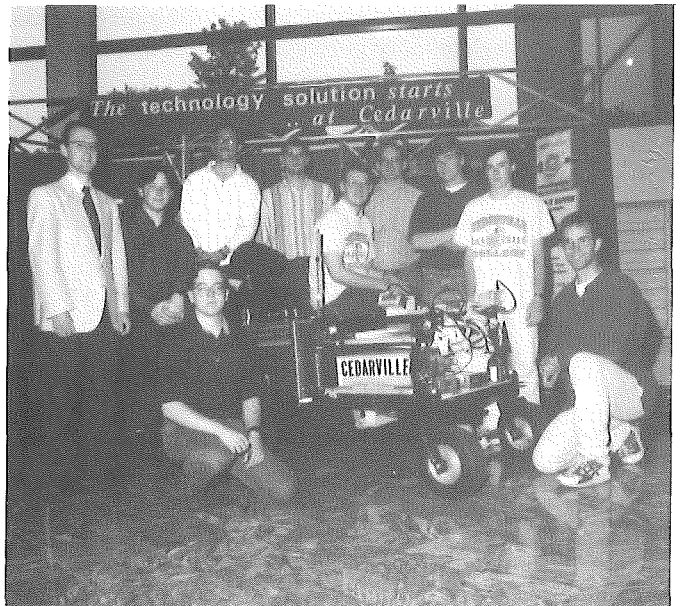
Introduction to the vibration of discrete systems to random excitation; harmonic vibration, transient response, convolution integral, Laplace and Fourier Transform, Discrete Fourier Transform and Fast Fourier Transform; random variables, coherence, correlation, auto- and cross-correlation, power spectral density, transfer function, and modal analysis. Prerequisites: ENGR-310 Electronics and Instrumentation, ENGR-488 Vibrations. Projects required. (Fee: \$30)

ENGR-491 Electrical Engineering Internship **1-3 hours**

An opportunity in which an electrical engineering student works closely with an industrial advisor employed at an area firm. Specific attention is given to solving a particular problem(s) in that industry or firm. A faculty advisor assists in supervision of and approval of the internship, including assessment of the number of credit hours. A final report (approximately 7 pages per credit hour) describing the experience -- including the problem and solution -- is required. Three credit hours of engineering electives can be satisfied by three hours of internship. Prerequisite: junior or senior status and permission of faculty advisor.

ENGR-495 Senior Seminar--Sp **1 hour**

Required weekly meeting of senior engineering majors to address transition to the professional work environment; special topics, current issues, and socio-technical problems will be presented and analyzed. Prerequisite: Senior status in engineering.



The 1995 Autonomous Ground Robot Team designed and built the self-guided vehicle pictured to follow a marked course and simultaneously avoid randomly placed obstacles. They finished ninth in North America at the SAE International competition held in Detroit, Michigan.

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Purpose

The Department of Health and Physical Education seeks to:

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

Personal Requirements

Students planning to pursue careers in physical education and its related areas are best prepared by taking a college preparatory curriculum in high school which includes four years of physical education and related courses. In addition, they should seek involvement in organized athletic programs and establish habits of maintaining good personal fitness. Students planning to obtain certification in athletic training or preparation in sports medicine should take as much coursework in science and mathematics as possible in high school.

Each student majoring in physical education is expected to maintain a high level of personal physical fitness. An annual one and one-half mile run is used to evaluate the status of the student's fitness.

Faculty

Donald Callan, *Chairman*: Athletic Director. Founder, Missionary Internship Service (MIS); NAIA District 22 "Administrator of the Year," 1987-89; 1990 Inductee, NAIA Hall of Fame. *Education*: B.S., Taylor University, 1955; M.A., Ball State Teachers College, 1960; Ph.D., The Ohio State University, 1968. At Cedarville since 1960.

Elaine Brown, Assistant Professor of Physical Education. Coach, Women's Volleyball. *Education*: B.S., Cedarville College, 1977; M.Ed., University of Dayton, 1982; Ph.D., The Ohio State University, 1995. At Cedarville since 1982.

Robert Duchardt, Head Athletic Trainer. Certified Athletic Trainer (NATA). *Education*: B.S., Taylor University, 1965; M.S., Union College, 1973; graduate study, West Chester State College, 1977. At Cedarville since 1989.

Kathleen Freese, Assistant Professor of Physical Education. Coach, Women's Basketball and Women's Softball. *Education*: B.S., Bowling Green State University, 1971; M.A., Bowling Green State University, 1981. At Cedarville since 1991.

Evan Hellwig, Assistant Professor of Physical Education. Certified Athletic Trainer (NATA), Licensed Physical Therapist *Education*: B.S., Mankato State University, 1984; Physical Therapy Certificate, University of Iowa School of Medicine, 1986; Ph.D., University of Virginia, 1992. At Cedarville 1986-89, 1992 to present.

Pamela Diehl Johnson, Professor of Physical Education. Coach, Women's Tennis; Member, NAIA Women's Tennis National Tournament Committee; Member, Executive Committee, Greene County Special Olympics. Co-author, Physical Fitness and the Christian; *Education*: B.S., University of Dayton, 1970; M.A., The Ohio State University, 1971; Ph.D., The Ohio State University, 1974. At Cedarville since 1974.

Elvin King, Associate Professor of Physical Education. Coach, Men's and Women's Cross Country. Founder, NCCAA National Track Meet. NCCAA Hall of Fame, 1993. *Education*: B.S., Kent State University, 1964; M.Ed., Bowling Green State University, 1967. At Cedarville since 1969.

John McGillivray, Associate Professor of Physical Education. Coach, Men's Soccer, NAIA Hall of Fame, 1993. *Education*: B.S., Cedarville College, 1970; graduate study, Wright State University, 1972-74; M.S., University of Dayton, 1976. At Cedarville since 1974.

Paul Orchard, Assistant Professor of Physical Education. Coach, Men's and Women's Track and Field. *Education*: B.S., Taylor University, 1983; M.A., Miami University, 1986. At Cedarville since 1993.

Jeffrey Reep, Associate Professor of Physical Education. Coach, Men's Basketball. *Education*: B.A. Cedarville College, 1978; M.Ed. Delta State University, 1981. At Cedarville since 1995.

Programs of Study

The Department of Physical Education offers the following programs of study:

Majors in:

- Athletic Training (national certification)
- Comprehensive physical education (certification for teaching K-12)
- Physical education with concentrations in:
 - Exercise science
 - Sports management
- Secondary physical education (certification for teaching 7-12)

Minors in:

- Coaching
- Comprehensive health education (certification for teaching K-12)
- Health education

Career Opportunities

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

- administrator of youth activities and youth organizations
- athletic administrator
- athletic director
- athletic trainer
- camp director
- coach
- health teacher
- physical education teacher
- recreation director

Athletic Training Major

The **athletic training major** prepares students for a ministry and career as certified athletic trainers. This program is designed to prepare the student to meet the requirements for certification set forth by the National Athletic Trainers Association (NATA) and the American Medical Association's Committee on Allied Health Education and Accreditation (CAHEA). While the College pursues CAHEA accreditation, students must fulfill the 1500 hour internship requirement specified by the NATA to be qualified to take the NATA Certification Exam.

Students considering a career in athletic training should understand that as an allied health profession, it requires a significant level of scientific and medical preparation. Prospective athletic training students should have successfully completed college preparatory courses in biology, chemistry, and advanced biology (or human anatomy and physiology) and, ideally, physics. They should also have successfully completed mathematics courses at least through Algebra II.

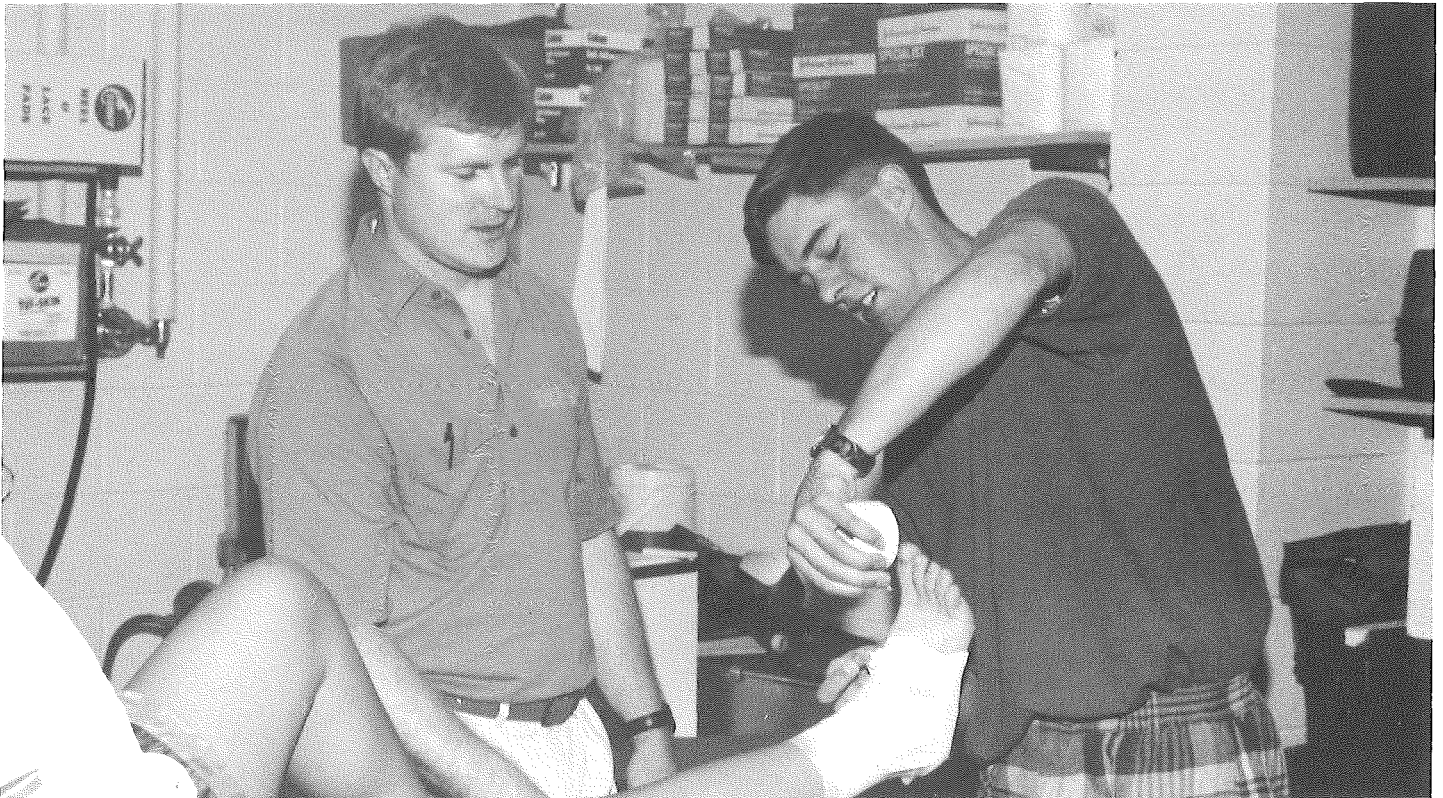
A. Course requirements, involve seventy-five hours including:

<i>Athletic Training core requirements</i>	73
PEM-235 Foundations of Physical Education	3

PEM-240 First Aid and Safety Education	3
PEH-250 Community Health Concepts	3
PEH-303 Nutrition for Health and Weight Control	2
PEH-316 Human Anatomy	5
(or BIO-216 Human Anatomy and Physiology II	5)
PEH-317 Human Physiology	5
(or BIO-217 Human Anatomy and Physiology	5)
Two of the following Health Seminars:	4
PEH-302 Stress Management Strategies	2
PEH-305 Mood Altering Substances	2
PEH-307 Current Issues in Health	2
PEA-255 Basic Athletic Training	3
PEA-356 Advanced Athletic Training I	4
PEA-357 Advanced Athletic Training II	4
PEA-365 Therapeutic Exercise	3
PEA-366 Modalities	3
PEA-368 Advanced Athletic Training III	4
PEA-455 Organ. and Admin. in Athletic Training	3
*PEA-499 Internship - Football	5
PEM-390 Physiology of Exercise	4
PEM-392 Kinesiology	3
PEM-490 Physical Education Senior Seminar	3
PYCH-160 General Psychology	5
PYCH-330 Health Psychology	4

Required cognate:

PEM-236 Fundamental Motor Skills	2
*EMT training must be completed prior to football internship.	



Athletic training majors gain extensive experience in the College's training facilities under the supervision of two certified athletic trainers.

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B. Academic progress requirement:

Students must maintain a GPA of at least 2.5 (C+) in athletic training courses in order to progress through the program. Each student's progress will be evaluated quarterly and yearly. Students will have the option of retaking courses for which they did not achieve satisfactory grades. Evaluation of progress will occur in both clinical performance and classroom work.

C. Requirements for National Certification:

1. Complete the requirements for the major as listed above.
2. Complete 1500 hours under the direct supervision of a certified athletic trainer. (Accomplished by participating in the daily operation of the Cedarville College training room and through internships at local high schools/colleges and sports medicine clinics.)
3. Complete the National Athletic Trainers Association core requirements:
 - a. Earn a baccalaureate degree from an accredited college in the United States.
 - b. Possess current American National Red Cross Standard First Aid Certification and current Basic CPR certification.
 - c. Receive the endorsement of certification by an N.A.T.A. Certified Athletic Trainer.
 - d. Pass the Certification Examination (written, oral practical, and written simulation sections).



The Athletic Center, with five basketball courts, a 1/10 mile indoor track, tennis courts, racquetball courts, batting cage, weight rooms, and large locker room facilities, serves physical education courses as well as the popular intramural and intercollegiate athletic programs.

Athletic Training Major Curriculum Summary

Proficiency Requirements	0-8
Athletic Training Major Requirements	75
Other General Education Requirements	75-97
Electives	20-42
Total (minimum, not including proficiency)	192

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in Athletic Training

<i>First Year:</i>	
BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
ENG-101 English Composition I	5
ENG-102 English Composition II	5
GSS-100 Foundations of Social Science	5
COM-110 Fundamentals of Speech	5
PEA-255 Basic Athletic Training	3
PEF-199 P.A.C.L.	2
PEM--235 Foundations of Physical Education	3
PEM-240 First Aid and Safety Education	3
PYCH-160 General Psychology	5
Total	44
<i>Second Year:</i>	
BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
BIO-216 Human Anatomy	5
BIO-217 Human Physiology	5
HUM-140 Introduction to Humanities	5
PEH-250 Community Health Concepts	5
PEH-303 Nutrition for Health and Weight Control	2
PEH-302,305or307 Health Seminar	2
PEM-236 Fundamental Motor Skills	2
PEM-390 Physiology of Exercise	4
Humanities elective	4-5
Literature elective	5
Total	45-46
<i>Third Year:</i>	
BEGE-375 God and History	4
BEGE-376 God and the Church	4
PEA-356 Advanced Athletic Training I	4
PEA-357 Advanced Athletic Training II	4
PEA--365 Therapeutic Exercise	3
PEA-366 Modalities	3
PEA-368 Advanced Athletic Training III	4
PEH-302,305or307 Health Seminar	2
PEM-392 Kinesiology	3
Physical education elective	1-2
Physical science elective	5
History elective	4-5
Elective	5
Total	49-50
<i>Fourth Year:</i>	
PEA-455 Organization and Administration in Athletic Training	3
*PEA-499 Football Internship	5
PEM-490 Physical Education Senior Seminar	3
PYCH-330 Health Psychology	4
Social Science elective	4-5
Electives	35-36
Total	54-55

*Emergency medical technician training must be completed prior to football internship.

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Comprehensive Physical Education Major

The **comprehensive physical education major** prepares students to teach physical education in grades K-12 in both public and Christian schools. Students who complete this curriculum will be certified by the State of Ohio and the Association of Christian Schools International. The Ohio teaching certificate, through reciprocal agreements, is automatically recognized in thirty-five states. Those planning to teach in states other than Ohio should consult with the Department of Education to be aware of special requirements in states where reciprocity has not been established.

Course requirements involve one hundred sixteen quarter hours including:

<i>Physical Education core requirements</i>	68
PEF-199 Physical Activity and Christian Life	2
PES-201 or 202 Apparatus	1
PER-210 Rhythmic	1
PES-212 Tumbling	1
PES-17 Swimming elective	1
PET-221 Team Sports	3
PEI-220 Individual and Dual Sports	3
PEL- Outdoor Leisure elective	1
PEM-235 Foundations of Physical Education	3
PEM-236 Fundamental Motor Skills	2
PEM-238 Motor Learning and Development	3
PEM-240 First Aid and Safety Education	3
PEH-313 School Health Program	4
PEH-316 Human Anatomy	5
(or BIO-216 Human Anatomy and Physiology I	5)
PEH-317 Human Physiology	5
(or BIO-217 Human Anatomy and Physiology II	5)
PEM-350 Curriculum Development in Physical Educ. ...	4
PEM-362 Adapted Physical Education	5
PEM-385 Measurement and Evaluation in Phys. Educ. .	3
PEM-390 Physiology of Exercise	4
PEM-392 Kinesiology	3
PEM-490 Senior Seminar	3
Physical Education electives	8

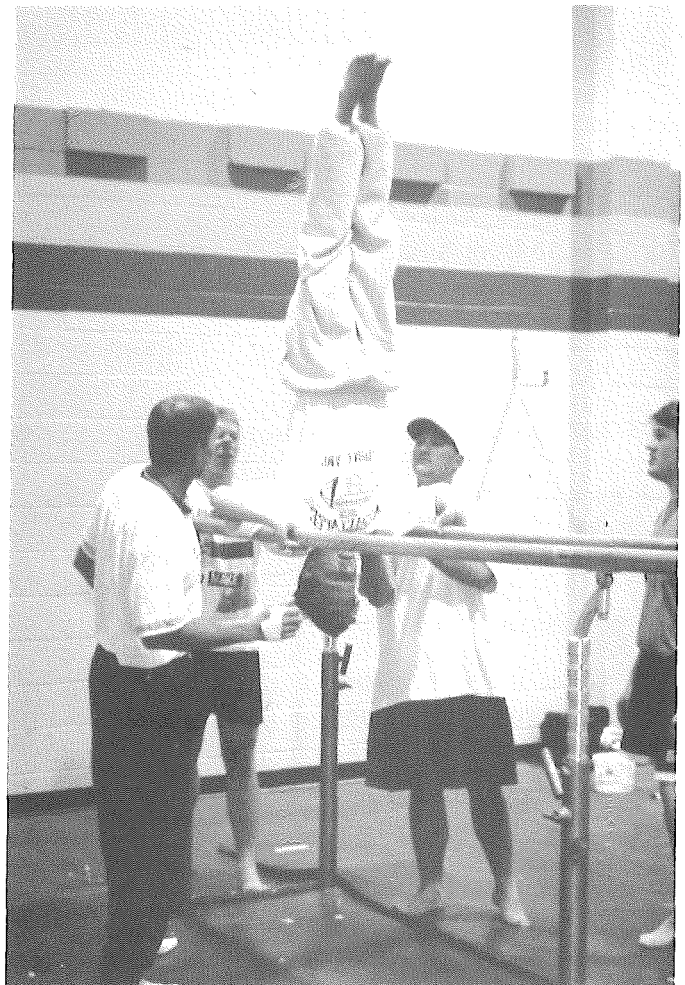
In addition to completing the course requirements listed, students are required to assist in a physical education activity class for one quarter and obtain certification in cardiopulmonary resuscitation.

Comprehensive Physical Education Major Curriculum Summary

Proficiency requirements	0-8
Comprehensive Physical Education major req.	68
Professional Education requirements	48
Other General Education requirements	77-99
Total (minimum, not including proficiency)	193-215

<i>Professional Education requirements</i>	48
EDSP-102 Education of the Exceptional Child	2
EDUC-100 Introduction to Education	2
EDUC-101 Field Experience	2
EDUC-201 Preliminary Student Involvement	0
EDUC-270 Audio Visual Methods	1
EDUC-300 Learner and the Learning Process	4
*EDUC-302 Teaching Thinking Skills	2
*EDUC-321 Philosophy of Education	3
*EDUC-350 Reading in the Content Area	3
*EDUC-450 Super. Stu. Teaching and Seminar	15
PEM-360 Physical Education in Elementary School	5
*PEM-495 Methods of Teaching Phys. Educ.	3
*PEM-496 Field Experience	6
Total	116

*Prerequisite is admission to the teacher education program (see the Education Department section of the catalog for the specific requirements).



Small classes taught by qualified, experienced faculty help physical education majors master proper techniques in skill-related courses.

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Physical Education Major

The physical education major, with its concentrations in either exercise science or sports management, prepares students for careers in a variety of fitness or recreation related fields. The required internship allows students in this program to gain valuable insight and experience in their chosen areas of interest. This major does not meet teacher education certification requirements.

Course requirements involve seventy-nine to eighty-one quarter hours including fifty-three quarter hours in core requirements and a minimum of twenty-six quarter hours in an area of concentration:

<i>Physical Education core requirements</i>	53
PEF-199 Physical Activity and Christian Life	2
PES-212 Tumbling	1
PES-17 Swimming elective	1
PET-221 Team Sports	3
PEI- Individual sports elective	1
PEL- Outdoor Leisure elective	1
PEM-235 Foundations of Physical Education	3
PEM-236 Fundamental Motor Skills	2
PEM-238 Motor Learning and Development	3
PEM-240 First Aid and Safety Education	3
PEH-300-308 Health Seminar elective	2
PEH-302 Stress Management Strategies	2
PEH-316 Human Anatomy	5
(or BIO-216 Human Anatomy and Physiology I	5)
PEM-362 Adapted Physical Education	5
PEM-385 Measurement and Evaluation in Physical Education	3
PEM-392 Kinesiology	3
PEM-490 Physical Education Senior Seminar	3
PEM-499 Physical Education Internships	10

The **exercise science concentration** prepares students for graduate level study in areas such as exercise physiology, cardiac rehabilitation, or bio-mechanics, and for entry level technician positions in corporate or private fitness centers and sports medicine clinics.

<i>Exercise science requirements</i>	11
PEH-303 Nutrition for Health and Weight Control	2
PEH-317 Human Physiology	5
(or BIO-217 Human Anatomy and Physiology II	5)
PEM-390 Physiology of Exercise	4
<i>Required exercise science cognates</i>	15
CHEM-154 Principles of Chemistry	5
GSCI-184 College Algebra	5
One course from the following:	
ANTH-180 Cultural Anthropology	5
PYCH-160 General Psychology	5
SOC-230 Principles of Sociology	5



Tennis is just one of the many life-long skills that can be acquired by fulfilling the physical education requirement.

The **sports management concentration** prepares students for a variety of careers in the recreational segment of the service industry.

<i>Sports management requirements</i>	14
BUS-100 Business Prologue	1
BUS-216 Business Communications	4
CIS-223 Microcomputer Applications	3
(or CIS-200 Computer Information Systems	3)
PEH- Health Seminar elective	2
PEM-481 Organ. and Admin. of Sports and Athletics	4
<i>Required sports management cognates</i>	14
ACCT-211 Principles of Accounting	5
MRKT-360 Principles of Marketing	4
One course from the following:	5
ANTH-180 Cultural Anthropology	5
PYCH-160 General Psychology	5
SOC-230 Principles of Sociology	5

Physical Education Major Curriculum Summary

Proficiency requirements	0-8
Physical Education major requirements	79-81
Other General Education requirements	77-99
Electives	27-51
Total (minimum, not including proficiency)	192

Secondary Physical Education Major

The **secondary physical education major** prepares students to teach physical education in grades 7-12 in public and Christian schools. Students completing these requirements will be certified by the State of Ohio and the Association of Christian Schools International. The Ohio teaching certificate, through reciprocal agreements, is automatically recognized in thirty-five states. Those planning to teach in states other than Ohio should consult with the Department of Education to be aware of special requirements in states where reciprocity has not been established.

Course requirements involve one hundred two quarter hours including:

<i>Physical Education core requirements</i>	59
PEF-199 Physical Activity and Christian Life	2
PES-201 or 202 Apparatus	1
PER-210 Rhythmics	1
PES-212 Tumbling	1
PES-17 Swimming elective	1
PET-221 Team Sports	3
PEI-220 Individual and Dual Sports	3
PEL- Outdoor Leisure elective	1
PEM-235 Foundations of Physical Education	3
PEM-236 Fundamental Motor Skills	2
PEM-238 Motor Learning and Development	3
PEM-240 First Aid and Safety Education	3
PEH-316 Human Anatomy	5
(or BIO-216 Human Anatomy and Physiology I	5)
PEH-317 Human Physiology	5
(or BIO-217 Human Anatomy and Physiology II	5)
PEM-350 Curriculum Development in Phys. Educ.	4
PEM-362 Adapted Physical Education	5
PEM-385 Measurement and Eval. in Physical Educ.	3
PEM-390 Physiology of Exercise	4
PEM-392 Kinesiology	3
PEM-490 Physical Education Senior Seminar	3
* Physical Education electives	3

* Not required if physical education is a second teaching field (see the Education Department section of the catalog for the specific requirements).

In addition to these course requirements, students are required to assist in a physical education activity class for one quarter and obtain certification in cardiopulmonary resuscitation.

<i>Professional Education requirements</i>	43
EDSP-102 Education of the Exceptional Child	2
EDUC-100 Introduction to Education	2
EDUC-101 Field Experience	2
EDUC-201 Preliminary Student Involvement	0
EDUC-270 Audio Visual Methods	1
EDUC-300 Learner and the Learning Process	4
*EDUC-302 Teaching Thinking Skills	2
*EDUC-321 Philosophy of Education	3
*EDUC-350 Reading in the Content Area	3
*PEM-495 Methods of Teaching Physical Education	3
*PEM-496 Field Experience	6
*EDUC-450 Supervised Stu. Teaching and Seminar	15
Total	102

* Prerequisite is admission to the teacher education program (see the Education Department section of the catalog for the complete requirements).

Secondary Physical Education Major Curriculum Summary

Proficiency requirements	0-8
Secondary physical education major requirements	59
Professional Education requirements	43
Other General Education requirements	77-99
Electives	0-13
Total (minimum, not including proficiency)	192-201



Students interested in enjoying the outdoors often choose a course in backpacking to satisfy one of their physical education requirements.

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A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in Physical Education

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
EDUC-100 Introduction to Education	2
EDUC-101 Field Experience	2
EDUC-102 Education of the Exceptional Child	2
ENG-110 English Composition I	5
ENG-140 English Composition II	5
HUM-140 Introduction to the Humanities	5
PEF-199 P.A.C.L.	2
PEI-220 Individual and Dual Sports	3
PEM-235 Foundations of Physical Education	3
PEM-236 Fundamental Motor Skills	2
History elective	4-5
Social science elective	4-5
Total	47-49

Second Year:

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
COM-110 Fundamentals of Speech	5
EDUC-201 Preliminary Student Involvement	0
EDUC-300 Learner and the Learning Process	4
*PEH-313 School Health Program	4
PEL- Outdoor Leisure	1
PEM-238 Motor Learning and Development	3
PEM-240 First Aid and Safety Education	3
PER-210 Rhythmics	1
PES-201 or 202 Apparatus	1
PES-173 Swimming	1
PES-212 Tumbling	1
PET-221 Team Sports	3
Biology elective	5
Literature elective	5
Total	50

Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	5
EDUC-270 Audio Visual Methods	1
GSS-100 Foundations of Social Science	5
PEH-316 Human Anatomy	5
PEH-317 Human Physiology	5
PEM-350 Curriculum Development in Physical Education	4
*PEM-360 Physical Education in Elementary School	5
PEM-385 Measurement and Evaluation in	
Physical Education	3
PEM-390 Physiology of Exercise	4
PEM-392 Kinesiology	3
Humanities elective	4-5
Physical science elective	5
Total	54-56

Fourth year:

EDUC-302 Teaching Thinking Skills	2
EDUC-321 Philosophy of Education	3
EDUC-350 Reading in the Content Area	3
EDUC-450 Student Teaching	15
PEM-362 Adapted Physical Education	5
PEM-470 Physical Education Senior Seminar	3
PEM-495 Methods of Physical Education	3
PEM-496 Field Experience	6
Physical education electives	8
Total	46

* These courses are not required for the secondary physical education major.

Coaching Minor

The **coaching minor** prepares students to work as coaches in organized athletic programs at any level. Though formal education is not currently required of coaches, this particular program, with its theoretical, scientific, and practical components, provides students with the knowledge and 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 College.

Course requirements for a minor in coaching involve twenty-seven quarter hours including:

PEA-255 Basic Athletic Training	3
PEC-367 Fundamentals of Coaching	2
PEC-368 Scientific Basis of Coaching	3
PEC-495 Internship in Coaching	5
PEF-199 Physical Activity and Christian Life	2
PEM-238 Motor Learning and Development	3
PEM-240 First Aid and Safety Education	3
PEM-392 Kinesiology	3
One course from PEC-370 through PEC-376 Coach	3

In addition to completing the course requirements listed, students are required to obtain certification in cardiopulmonary resuscitation.



Students gain coaching and leadership insights from professors who are active coaches themselves. John McGillivray, varsity soccer coach pictured here, is the recipient of several NAIA national soccer coaching awards.

Comprehensive Health Education Teaching Field

The **comprehensive health education teaching field** prepares students to teach health in Christian or public schools in grades K-12. This program of study qualifies as a second teaching field; it is not a major field of study. Students must select an additional subject area to qualify as a major.

Course requirements involve ninety quarter hours including:

<i>Health Education core requirements</i>	47
PEF-199 Physical Activity and Christian Life	2
PEH-200 Introduction to the Health Profession	2
PEH-250 Community Health	3
Six Health Seminars selected from:	12
PEH-300 Consumer Health	2
PEH-302 Stress Management Strategies	2
PEH-303 Nutrition for Health and Weight Control	2
PEH-304 Death and Dying: Education for Living	2
PEH-305 Mood-Altering Substances	2
PEH-306 Gerontological Health Issues	2
PEH-307 Current Issues in Health	2
PEH-308 Environmental Health	2
PEH-313 School Health Program	4
PEH-316 Human Anatomy	5
(or BIO-216 Human Anatomy and Physiology I	5)
PEH-317 Human Physiology	5
(or BIO-217 Human Anatomy and Physiology II	5)
PEM-240 First Aid and Safety Education	3
PYCH-270 Child Development	4
(or PYCH-370 Adolescent Development	4)
SOC-342 Human Sexuality	3
SOC-375 Social Movements	4
 <i>Professional Education requirements</i>	 43
EDSP-102 Education of the Exceptional Child	2
EDUC-100 Introduction to Education	2
EDUC-101 Field Experience	2
EDUC-201 Preliminary Student Involvement	0
EDUC-270 Audio Visual Methods	1
EDUC-300 Learner and the Learning Process	4
*EDUC-302 Teaching Thinking Skills	2
*EDUC-321 Philosophy of Education	3
*EDUC-350 Reading in the Content Area	3
*EDUC-450 Supervised Stu. Teaching and Seminar	15
*PEH-461 Teaching Health	3
*PEM-496 Field Experience	6

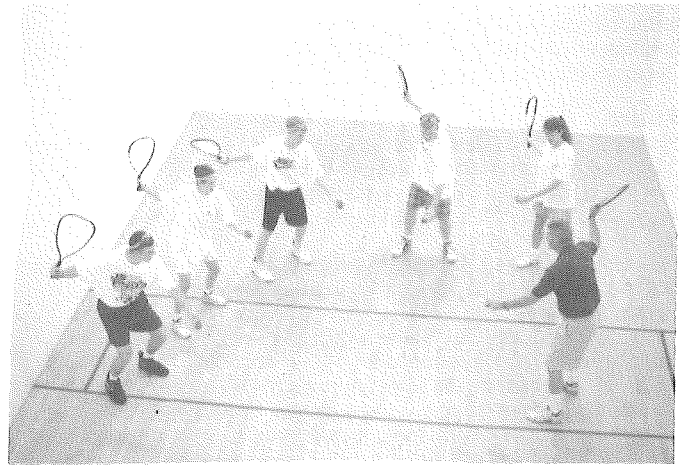
* Prerequisite is admission to the teacher education program (see the education department section of the catalog for the complete requirements).

Health Education Minor

The **health education minor** is a non-certificate area for those students not seeking state teaching certification in health education. Designed to introduce students to worksite health education/promotion, it supplements the coursework in physical education, business, or psychology.

Course requirements involve thirty-two quarter hours including:

PEF-199 Physical Activity and Christian Life	2
PEH-200 Introduction to the Health Profession	2
PEH-250 Community Health	3
PEH-302 Stress Management Strategies	2
PEH-303 Nutrition for Health and Weight Control	2
PEH-306 Gerontological Health	2
PEH-308 Environmental Health	2
PEH-316 Human Anatomy	5
(or BIO-216 Human Anatomy and Physiology I	5)
PEM-240 First Aid and Safety Education	3
SOC-375 Social Movements	4
One course selected from:	
PEM-499 Internship	5
PYCH-160 General Psychology	5
PYCH-263 Psychology of Aging	5
SOC-371 Family and Society	5



Many students take a course in racquetball to satisfy their general education requirement for physical education. The Athletic Center features three racquetball courts.

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Course Descriptions

Activity Courses

PE-100 through PE-212 Activity 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 aerobic requirements. Grading options include letter grades or credit/no credit. These courses may be used by non-majors to satisfy the physical education component of the General Education requirements and by majors to satisfy specific curricular requirements. A variety of activity courses is offered each quarter.

PEE-124 Self Defense

PEF-111 and 129 Personal Exercise Program

PEI-143 Badminton

PEI-146 Bowling (Fee: \$15)

PEI-154 Golf (Fee: \$15)

PEI-160 Racquetball

PEI-177 Tennis

PEI-178 Advanced Tennis

PEL-142 Backpacking (Fee: \$25)

PEL-151 Cycling

PEL-161 Rock Climbing (Fee: \$25)

PER-210 Rhythmics

PES-170 Beginning Swimming (Fee: \$15)

PES-172 Intermediate Swimming (Fee: \$15)

PES-173 Swimmers (Fee: \$15)

PES-174 Lifeguard Training (Fee: \$25) (2 hours)

PES-175 Water Safety Instructor (Fee: \$25) (2 hours)

PES-201 and PES-202 Apparatus

PES-212 Tumbling

PET-182 Volleyball-Coed

PET-183 Advanced Volleyball

PEF-199 Physical Activity and The Christian Life--A,W,Sp 2 hours

A 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.

Athletic Training

PEA-255 Basic Athletic Training--Sp 3 hours

A course covering the prevention, management, and rehabilitation of sport related injuries. Other relevant topics include nutrition, injury cycle, and psychological considerations of injury and recovery. (Fee: \$30)

PEA-356 Advanced Athletic Training I--A 4 hours

Comprehensive evaluation, management, and rehabilitation of athletic injuries involving the lower extremity. Prerequisite: PEA-255 Basic Athletic Training, PEH-316 or BIO-216 Human Anatomy (may be taken concurrently). (Fee: \$20)

PEA-357 Advanced Athletic Training II--W 4 hours

Comprehensive evaluation, management, and rehabilitation of athletic injuries involving the upper extremity. Prerequisite: PEA-255 Basic Athletic Training, PEA-316 or BIO-216 Human Anatomy. (Fee: \$15)

PEA-365 Therapeutic Exercise for Athletic Injuries--Sp 3 hours

Management of athletic injuries from the subacute phase through return to participation. Based on principles of biomechanics with emphasis on strength, flexibility, proprioception, endurance, and agility.

PEA-366 Modalities in Athletic Training--W 3 hours

An overview of the modalities used in athletic training including cryotherapy, superficial heat, TENS, ultrasound, laser, and exercise. (Fee: \$20) (even years)

PEA-368 Advanced Athletic Training III--Sp 4 hours

Comprehensive evaluation, management, and rehabilitation of athletic injuries involving the head, trunk, back, abdomen, and skin. Prerequisite: PEA-255 Basic Athletic Training, PEA-316 or BIO-216 Human Anatomy. (Fee: \$15)

PEA-455 Organization and Administration in Athletic Training--W 3 hours

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. (odd years)

PEA-499 Football Internship--A 5 hours

Students will spend at least 100 hours working with a certified athletic trainer during pre-season and regular season football. Assignment may be at the collegiate or high school level. Students are responsible for their own transportation. Assignments begin in mid-August. Prerequisite: Emergency Medical Technician training.

Coaching

PEC-367 Fundamentals of Coaching--A 2 hours

An overview of the philosophy, psychology, organization, and general responsibilities of an athletic coach. (even years)

PEC-368 Scientific Basis of Coaching--W 3 hours

A practical study of physiological and kinesiological principles of training and their application to various sports. (odd years)

PEC-370 through PEC-376 Coaching 3 hours each

The organization, skills, techniques, and strategies of the following sports:

PEC-370 Coaching Volleyball--Sp (even years)

PEC-372 Coaching Basketball--A

PEC-373 Coaching Track and Field and Cross Country--W (odd years)

PEC-374 Coaching Softball and Baseball--W (even years)

PEC-376 Coaching Soccer--Sp (odd years)

PEC-495 Internship in Coaching--A,W,Sp 5 hours

A field experience at the College or a nearby high school involving actual coaching experience. Advanced departmental approval is required. Graded on a credit/no credit basis.

Education

PEO-299 The Teaching of Health and Physical Education -- A,W,Sp 3 hours

An investigation of current trends, methods of instruction, and curriculum design in health education and physical education at the elementary school level. Prerequisite: EDUC-300 Learner and the Learning Process.

Physical Education Electives

PEE-230 through PEE-232 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.

PEE-230 Basketball Officiating--A (odd years)

PEE-231 Volleyball Officiating--Sp (even years)

PEE-232 Track and Field Officiating--W (even years)

PEE-283 Recreational Leadership--Sp 3 hours

A survey of the recreational aspects of games and activities from a non-competitive 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 children, youth, and adults in schools, youth group outings, Bible clubs, and camps will be provided.

PEE-490 Independent Study in Physical Education--A,W,Sp 1-4 hours

Independent study by major students of advanced standing toward the understanding and appreciation of problems in physical education. This course is intended to give the student the opportunity to develop skills in the use of literature and in the appropriate techniques in the solution of problems.

Health and Physical Education 113

Health

PEH-200 Introduction to the Health Professions--W 2 hours

An 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.

PEH-250 Community Health Concepts--W 3 hours

An analysis of current community health problems and how solutions can be achieved in and through existing community health programs. (odd years)

PEH-300 through PEH-308 Health Seminars--A,W,Sp 2 hours each

The health seminars are designed to provide in-depth study of specific health topics, providing the student with a strong content base and practical experiences for professional and personal implementation.

PEH-300 Consumer Health--A

PEH-302 Stress Management Strategies--Sp

PEH-303 Nutrition for Health and Weight Control--A

PEH-304 Death and Dying: Education for Living--W

PEH-305 Mood-Altering Substances--Sp

PEH-306 Gerontological Health Issues--Sp

PEH-307 Current Issues in Health--A

PEH-308 Environmental Health--W

PEH-313 School Health Program--Sp 4 hours

An analysis of the scope of the school health program, including health services, healthful school living, and health instruction.

PEH-316 Human Anatomy--A 5 hours

A study of the structure of the human body and the relationships of its parts from a Christian-theistic perspective. There will be four lectures and one 2-hour lab per week. (Fee: \$30) Prerequisite: BIO-100 Principles of Biology

PEH-317 Human Physiology--W 5 hours

A study of the functions and processes of the human organism and the relationship of design and function from a Christian perspective. There will be four lectures and one 2-hour lab per week. (Fee: \$30) Prerequisite: PEH-316 Human Anatomy

PEH-461 Teaching Health--A,W,Sp 3 hours

Methods of instruction with an emphasis on curriculum planning and sequence; individual teaching experiences demonstrating the student's understanding and use of current trends in methods, teaching aids, and resource materials. Prerequisite: Admission to the teacher education program.

Leisure

PEL-281 Introduction to Camping 3 hours

The development and scope of camping, including philosophies of centralized and decentralized camping, standards, administration, and basic campcraft skills. Special arrangement only.

Major Requirements

PEI-220 Individual and Dual Sports--Sp 3 hours

Theory and practice in tennis, badminton, racquetball, bowling, golf, and other sports with attention given to various teaching methods, skills, and rules.

PET-221 Team Sports--A 3 hours

Theory and practice in soccer, basketball, softball, baseball, volleyball, and novelty sports with attention given to various teaching methods, skills, and rules.

PEM-235 Foundations of Physical Education--W 3 hours

An orientation to the history, philosophy, and scope of modern physical education from a theistic perspective.

PEM-236 Fundamental Motor Skills--W 2 hours

A course for the development of cognitive and psychomotor knowledge of the fundamental locomotor, non-locomotor, and manipulative movement tasks and patterns.

PEM-238 Motor Learning and Development--W 3 hours

A study of the stages in motor development, factors affecting the acquisition of motor skills and learning as it relates to motor skill acquisition.

PEM-240 First Aid and Safety Education--W,Sp 3 hours

American Red Cross Standard First Aid and C.P.R. Certificate may be granted at the end of the course. (Fee: \$5)

PEM-350 Curriculum Development in Physical Education--A 4 hours

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. (odd years)

PEM-360 Physical Education in the Elementary School--W 5 hours

An overview of the place of physical education in the elementary school curriculum with an emphasis on the study of current program content design and teaching techniques.

PEM-362 Adapted Physical Education--Sp 5 hours

A study designed to provide learning experiences in adapted physical education that will provide a foundation for working with disabled individuals in various mainstreamed and individualized sport, physical education and activity settings, or for pursuing further preparation in physical education for the disabled as a specialized area of service. A 50-hour field experience will accompany classroom instruction.

PEM-385 Measurement and Evaluation in Physical Education--W 3 hours

A study of existing programs of evaluation for physical education programs with consideration given to techniques of test administration and the organization and interpretation of data collected. Prerequisite: PEM-235 Foundations of Physical Education.

PEM-390 Physiology of Exercise--Sp 4 hours

A study of the implication of the physiological process of the body under varying circumstances. Prerequisite: PEH-316,317 Human Anatomy, Human Physiology.

PEM-392 Kinesiology--W 3 hours

Application of the facts and principles of anatomy and physiology and their relationship to body movement; and the teaching of physical education skills.

PEM-481 Organization and Administration of Sports and Athletics--Sp 4 hours

A study of current issues, management techniques, and programming concepts as utilized in the administration of athletics, intramurals, and recreational sports.

PEM-490 Physical Education Senior Seminar--A,W,Sp 1 hour each

A study of current issues in the field of physical education along with the implications of physical education and sport on society. Students will also study sport law in addition to methods of research and evaluation. Students register for 1 hour each quarter of their senior year.

PEM-495 Methods of Teaching Physical Education--A 3 hours

Methods of instruction, current trends and practices in curriculum planning, and the utilization of teaching aids and resource materials. Prerequisite: Admission to the teacher education program.

PEM-496 Field Experience--A 6 hours

A six-week field experience graded on a Credit/No Credit basis. Prerequisite: Admission to the teacher education program. (Fee: \$30).

PEM-499 Internship in Physical Education--A,W,Sp 5-15 hours

A field experience for non-teaching majors designed to provide an opportunity for students to be involved in a variety of activities compatible with their career interests. Departmental approval is required along with determination of the number of credit hours to be granted. Graded on a Credit/No Credit basis.

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Profile

Interdisciplinary programs at the College 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 students' view of knowledge and the world as a whole.

Personal Requirements

Students who choose interdisciplinary programs typically possess a unique love for learning. They desire to know about many areas and enjoy discovering the relationships between the various academic disciplines which 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 which both 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 is strongly recommended.

Programs of Study

The College offers the following interdisciplinary programs:

- College Studies
- Honors Program
- International Studies major, with concentrations in:
 - Global Economics and International Business
 - Missiology
 - Social Science
- Reserve Officers Training Corps (ROTC)
 - Air Force
 - Army

Career Opportunities

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

- diplomat
- government worker
- international relations
- military officer
- missionary

College Studies

COLL-100 Transitions--A,W

1 hour

Designed to assist students in understanding and developing skills needed for college success. Includes placement and diagnostic testing, special advising, and tutoring when necessary.

COLL-400 Employment Strategies--A,W

1 hour

Designed to give graduates tools necessary for finding employment. Suggestions given for resume writing, interviewing, locating job possibilities, and identifying individual marketable skills.

The Honors Program

The Honors Program is designed to challenge gifted students to reach their academic potentials through a specially designed course of study. This program is not a major, but rather a specially crafted sequence of courses which enriches existing major fields of study. The courses designated as "honors courses" are rigorous and demanding, challenging students to aspire to greater heights in the world of ideas.

Admission to the program for entering freshmen is based upon ACT/SAT scores, written essays, high school rank and grade point average and, when possible, a personal interview. Prospective students must complete a separate application which is available through the admissions office.

A limited number of students are admitted into the program each fall. Students enrolled in the Honors Program are required to complete seven honors courses in addition to a senior research project or thesis.

Three of these courses are taken in the freshman year in a sequence entitled "The Making of the Modern Mind," which tracks the development of philosophic, literary, scientific, and aesthetic traditions against the background of the history of western civilization. These three courses meet general education requirements in humanities, philosophy, and history.

In the sophomore and junior years, honors students take four integrative seminars. Typically, each honors seminar is taught by two or three faculty members from different academic departments in a team-teaching effort providing an interdisciplinary perspective to the topic of study.

In the senior year, each honors student conducts a year-long research project under the direction of a faculty mentor from the student's academic department. A thesis is written as part of this research project. At graduation, honors students receive appropriate recognition of their honors status.

Through the Honors Program, Cedarville College encourages superior scholarship, allows a thorough integration of the various disciplines, and provides the student an opportunity to understand better how all knowledge relates to its theistic source. Honors offers an adventure in the world of ideas, coupled with practical incentives for transcribing faith and learning into larger culture for the glory of God and the benefit of men and women in His image.

Course requirements for the Honors Program involve 30-36 quarter hours including:

I. Freshman Colloquia: The Making of the Modern Mind 15 hours

- ¹HON-101 Classical Antiquity 5
- ²HON-102 Renaissance and Reformation 5
- ³HON-103 The Age of Revolutions 5

II. Honors Integrative Seminars 12-16 hours

Four seminars, typically 3 hours each, taken in the sophomore and junior years.

III. Honors Research Project/Thesis 3-5 hours

Participation in a one hour interdisciplinary colloquium each quarter (HON-491, HON-492, HON-493) or a research project in the student's major, conducted under the direction of a departmental mentor (HON-495).

¹Satisfies HUM-140 Introduction to the Humanities

²Satisfies the General Education requirement of a humanities elective

³Satisfies the General Education requirement in history

Co-Curricular Opportunities

Tau Delta Kappa provides an opportunity for fellowship, ministry, exchange of ideas, and support of students involved in the Honors Program. TDK students also tutor school children in the Cedarville area.

The Exponent is a publication sponsored by the Honors Program. Each edition features short fiction, poetry, and articles provided by students.

Honors Course Descriptions

Freshman Colloquia

HON-101,102,103 The Making of the Modern Mind--A,W,Sp 15 hours

HON-101 Classical Antiquity "Beginnings"--A 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...

HON-102 Renaissance and Reformation "Faith & Reason"--W 5 hours

Explores the uneasy tensions between Church and State, sacred and secular, piety and humanistic scholarship that have shaped and continue to shape how one views the world today. The story begins in the High Middle Ages, in Europe.

HON-103 The Age of Revolutions--Sp 5 hours

Studies those political, artistic, scientific, and philosophical revolutions that have shaped the modern mind. The story begins in the late eighteenth century, in America and France.

Honors Seminars (Seminar offerings vary from year to year.)

HON-301 Sociology of Sport--W 3 hours

Devoted to the conceptual analysis of play, recreation, contest, competition, game, and sport. Focusing on baseball as that sport which best embodies American ideals, the course explores the thesis that baseball is a microcosm of American values.

HON-303 Philosophy of Literature: Recent French Developments--A 3 hours

This course is devoted to the reading and philosophic evaluation of selected twentieth century world literature, focusing on the alienation and disorder in twentieth century fiction.

HON-304 Her Own Voice: Women in America 3 hours

A study of the places American women have found themselves in since 1860, the expectations made upon them, and the influences they have had upon American society.

HON-306 Organizational Leadership

Leadership as a societal role is addressed through analysis of theory and observation of practitioners. A chronology of methodological approaches to the study of leadership is presented. Assigned reading and class processing of ideas and theories prepares the student for observation and evaluation of leaders in a variety of disciplines.

HON-307 Science, Religion, and Technology 3 hours

By means of a meta-level critique of the concepts, methods, and arguments of the various sciences, as well as an analysis of the theological and philosophical underpinnings of science, this course aims to: 1) Demarcate science from pseudo-science, 2) evaluate contemporary thought in the limits of science, 3) evaluate relation between science, human values, religion, and technology.

HON-308 Creativity: The Birth of a Notion 3 hours

To stimulate 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-310 Hispanic Perspectives on the United States 3 hours

Provides perspectives on the Hispanic world view and attitudes toward Anglo-Americans, as seen through the eyes of Latin Americans and Hispanics in the United States.

HON-311 Literature and Faith: Graham Greene and His Critics 3 hours

An investigation of the problematic and tenuous connection between literature and belief and between literary criticism and the demands that may reasonably be made on an author, with Graham Greene as the focus of the study.

HON-313 Perspectives on Friendship, Love and Romance 3 hours

Explores friendship, love, and romance from historical, theological, psychological, literary, and philosophical perspectives.

HON-375 Authoring for Interactive Multimedia--Sp 4 hours

This course covers the development of interactive multimedia programming for educational and training applications. Topics include research on the effectiveness of interactive media, the team approach to planning for interactive projects, and the use of authoring software for control of various media by the computer.

HON-420 Culture and Health--A 3 hours

Situations in which crosscultural dilemmas emerge from the interaction of culture and health are analyzed to derive models for resolution.

HON-461 Communication Ethics--Sp 3 hours

Journaling life experience, discussing American moral traditions, and performing biblical narratives are the activities by which students realize the ethical basis for communication and the communication basis for ethics.

HON-491 Honors Senior Seminar 1 hour

A multicultural approach to great books of the Western tradition.

HON-492 Honors Senior Seminar 1 hour

Stresses the development of a Christian worldview in the midst of a pluralistic, secular society.

HON-493 Honors Senior Seminar 1 hour

The gospel and American popular culture.

HON-495 Honors Senior Research Project 1-2 hours

A research project in the student's major conducted under the direction of a departmental mentor.

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International Studies

The **international studies major** utilizes courses from several academic disciplines to prepare students for a variety of internationally-focused careers. A distinct international studies core provides the foundation for all of the concentrations available in this major. Courses in anthropology, business, communications, culture, geography, history, linguistics, and political science provide students with the basic understanding they need to appreciate the diverse international community. Concentration options enable students to focus upon a particular area of interest within the international context. Three concentrations are available.

The **global economics and international business** concentration provides students with an economic view of the international community. Utilizing courses in business, economics, and political science, this program prepares business-oriented students for careers in international management, marketing, and finance; comparative economics; missions; and the foreign service.

Course requirements involve one hundred and nine quarter hours including:

<i>International studies core requirements</i>	32
^{1,2} ANTH-180 Cultural Anthropology	5
² BEPH-226 Religion and Culture	5
BUS-291 International Business	3
² COM-314 Intercultural Communication	4
GEO-250 Introduction to Geography	2
GEO-352 World Regional Geography - East	4
(or GEO-351 World Regional Geography - West.....)	4
³ HIST-203 History of Civilization	4
LING-308 Linguistics for Language Learning	5
 <i>Business administration core requirements</i>	51
ACCT-211,212 Principles of Accounting	10
BUS-100 Business Prologue	1
BUS-211,212 Statistics	6
BUS-218 Business Law I	4
BUS-422 Business Seminar	3
BUS-499 Executive Development (3 quarters)	0
CIS-220 Computer Information Systems	3
ECON-233 Microeconomics	4
ECON-234 Macroeconomics	4
FIN-371 Financial Management of the Firm	4
MGMT-350 Prin. of Organization and Management	4
MGMT-451 Administrative Policy and Strategy	4
MRKT-360 Principles of Marketing	4

<i>Global economics and international business requirements</i>	26
ECON-335 Comparative Economic Systems	4
ECON-336 International Economics	4
ECON-338 Economic Development	4
MGMT-357 International Management	4
(or MGMT-462 International Marketing	4)
<i>Electives (selected from):</i>	10
HIST-405 Great Power Diplomacy	4
MGMT-357 International Management	4
MRKT-462 International Marketing	4
POLS-365 International Relations	5
Regional studies elective	3

<i>Additional required cognate:</i>	
⁵ GSCI-190 Calculus for Business	5

¹Satisfies the General Education requirement in social science

²Satisfies the General Education requirement of a humanities elective

³Satisfies the General Education requirement in history

⁴Satisfies the General Education requirement in literature

⁵Satisfies the General Education requirement in mathematics



International business professor Richard Baldwin brings experiences in Japan and Russia to the business classroom.

In addition to these requirements, students must fulfill a foreign culture experience. Possible options include:

- Living abroad
- Foreign work-study program
- Foreign internships

Approval should be obtained from the business department chairperson. This requirement is generally not fulfilled by travel overseas or minimum MIS experience.

International Studies Major-Global Economics and International Business Concentration Curriculum

Summary:

Proficiency requirements	0-8
Other General Education requirements	61-81
International studies core requirements	32
Global economics and internat'l business req.	77
Required cognates	5-20
Electives	22
Total (minimum, not including proficiency)	192-198

The **missiology** concentration provides students with a missiological view of the international community. Involving coursework in missions, philosophy, sociology, geography, political science, economics, and literature, this program prepares students for a variety of missions-related positions.

Course requirements involve eighty to eighty-eight quarter hours including:

<i>International studies core requirements</i>	32
^{1,2} ANTH-180 Cultural Anthropology	5
² BEPH-226 Religion and Culture	5
BUS-291 International Business	3
² COM-314 Intercultural Communication	4
GEO-250 Introduction to Geography	2
GEO-351 World Regional Geography - West	4
(or GEO-352 World Regional Geography - East	4)
³ HIST-203 History of Civilization	4
LING-308 Linguistics for Language Learning	5

<i>Missiology concentration requirements</i>	29
BECE-200 Christian Education Survey	5
BEPT-240 Evangelism	4
BEPT-242 Missions Survey	4
BEPT-345 Contemporary World Missions	4
BEPT-346 The Missionary Process	3
BEPT-441 Independent Study in Missions	3
Cross-cultural international experience	6

(This requirement may be satisfied by taking a missionary internship, studying a foreign language abroad, or by attending the Institute for Holy Land Studies in Jerusalem, Israel.)

Electives selected from the following 20-28

Two courses in philosophy:

² BEPH-220 Introduction to Philosophy	5
² BEPH-225 Ethics	5
BEPH-325 Philosophy of Religion	3
BETH-333 Christian Evidences and Apologetics	3

One course in sociology:

SOC-334 Sociology of Religion	4
SOC-371 Family and Society	5

One course in geography or political science:

GEO-351 or GEO-352 World Regional Geography	4
HIST-405 Great Power Diplomacy	4
HIST-321 Hist. and Pol. Devel. in E. Asia	4
HIST-322 Middle East: Hist. and Pol.	4
POL-365 International Relations	5

One course in economics:

ECON-335 Comparative Economic Systems	4
ECON-336 International Economics	4
ECON-338 Economic Development	4

One course in literature:

LIT-231 World Literature	5
SPAN-460 Hispanic Civilization	4

Additional required cognates:

Elementary modern foreign language (or 2 yrs. of high school language)	15
Intermediate modern foreign language	9-15

¹Satisfies the General Education requirement in social science

²Satisfies the General Education requirement of a humanities elective

³Satisfies the General Education requirement in history

⁴Satisfies the General Education requirement in literature

⁵Satisfies the General Education requirements in mathematics

International Studies Major-Missiology Concentration Curriculum Summary:

Proficiency Requirements	0-8
Other General Education Requirements	61-66
International studies core requirements	32
Missiology concentration requirements	80-88
Required cognates	9-30
Electives	0-10
Total (minimum, not including proficiency)	192-216

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The **social science concentration** provides students with a political view of the international community. Utilizing courses in economics, geography, history, literature, and political science, this program prepares students for careers in areas such as the foreign service, international media, international relations, and missions.

Course requirements involve seventy-one to seventy-eight quarter hours including:

<i>International studies core requirements</i>	32
² ANTH-180 Cultural Anthropology	5
² BEPH-226 Religion and Culture	5
BUS-291 International Business	3
² COM-314 Intercultural Communication	4
GEO-250 Introduction to Geography	2
GEO-352 World Regional Geography - East	4
(or GEO-351 World Regional Geography - West	4)
³ HIST-203 History of Civilization	4
LING-308 Linguistics for Language Learning	5

<i>Social Science Requirements</i>	21
ECON-335 Comparative Economic Systems	4
GEO-351 World Regional Geography - West	4
(or GEO-352 World Regional Geography - East	4)
HIST-201,202 History of Civilization	8
POLS-365 International Relations	5

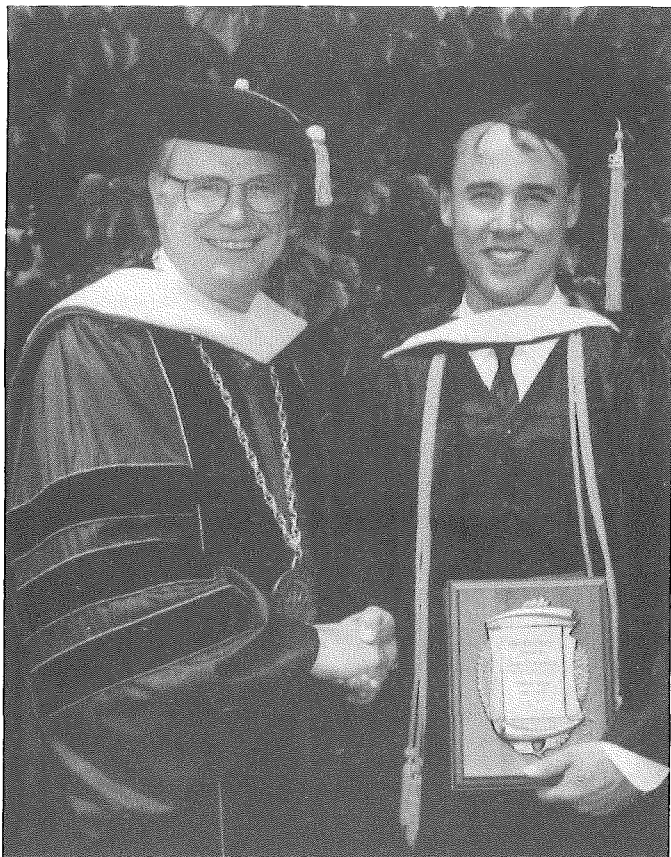
Electives selected from the following: 18-25

Three courses from social sciences and history:

GEO-354 Geography of Africa	3
GSS-490 Ind. Study (read. and travel study)	1-6
(Travel study must be approved by the department)	
HIST-304 British Empire and the Developing Non-	
Western World	4
HIST-306 History of Modern Germany	4
HIST-308 Russia and Soviet Union in 20th Century	4
HIST-321 Hist. and Polit. Develop.	
of E. Asia	4
HIST-322 Middle East: History	
and Politics	4



The required crosscultural experience in the international studies program gives students opportunities to learn and apply principles of intercultural communication. Missiology major Jennifer Yaggi is pictured here with friends she made during her internship in Venezuela.



Students with extensive international experience often choose the international studies major to prepare for careers abroad. 1995 graduate Todd Entner grew up in the Philippines and now teaches English at Peoples University in Beijing, China.

HIST-405 Great Power Diplom. in Mod. World	4
One course from philosophy and theology:	
BEPH-222 History of Modern Philosophy	5
BEPH-325 Philosophy of Religion	3
BEPH-423 Contemporary Philosophy	5
BEPT-245 Contemporary World Missions	4
BETH-233 Bible Geography and Customs	5
BETH-333 Christian Evidences and Apologetics	3
One course from language and literature:	
LIT-231 World Literature	5
SPAN-460 Topics Foreign Language-Latin America ...	4
<i>Additional required cognates:</i>	
Elementary modern foreign language (or 2 yrs. of high school language)	15
Intermediate modern foreign language	9-15

¹Satisfies the General Education requirement in social science

²Satisfies the General Education requirement of a humanities elective

³Satisfies the General Education requirement in history

⁴Satisfies the General Education requirement in literature

⁵Satisfies the General Education requirements in mathematics

International Studies Major-Social Science Concentration Curriculum Summary:

Proficiency requirements	0-8
Other General Education requirements	61-66
International studies core requirements	32
Social sciences and history requirements	71-78
Required cognates	9-30
Electives	0-20
Total (minimum, not including proficiency)	192-214

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in International Studies

<i>First year:</i>	
ANTH-180 Cultural Anthropology	5
BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
BUS-100 Business Prologue	1
(or Physical education elective	1)
COM-110 Fundamentals of Speech	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSS-100 Foundations of Social Science	5
HUM-140 Introduction to the Humanities	5
PEF-199 P.A.C.L.	2
Mathematics elective	5
Science elective	5
Total	51
<i>Second year:</i>	
BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
BEPH-226 Religion and Culture	5
COM-314 Intercultural Communications	4
HIST-203 History of Civilization	4
GEO-250 Introduction to Geography	2
GEO-351 or 352 World Regional Geography	4
Language and/or concentration requirements	22
Literature elective	5
Total	49
<i>Third year:</i>	
BEGE-375 God and History	4
BEGE-376 God and the Church	4
BUS-291 International Business	3
ECON-335 Comparative Economic Systems	4
LING-311 Linguistics for Language Learning	5
POLS-365 International Relations	5
Mathematics or science elective	5
Electives in major category I	9-12
Electives	6-9
Total	45
Travel abroad (summer or during the jr. or sr. years)	0-6
<i>Fourth year:</i>	
Concentration requirements or electives	47
Total	47

120 Interdisciplinary Studies

Reserve Officer Training Corps (ROTC) Air Force

Cedarville College cooperates with Wright State University in offering Air Force Reserve Officer Training Corps instruction which prepares students for commissioning as second lieutenants in the United States Air Force. While all courses are taken through the College, leadership laboratories and classes for the junior and senior years are taught at Wright State University, the site of the area Air Force ROTC detachment. Transportation is provided by the College.

The four-year program is divided into two phases: the General Military Course involving the freshman and sophomore years and the Professional Officer Course involving the junior and senior years. Freshman and sophomore general military courses are open to everyone interested in registering for the courses. No commitment to the Air Force is required. Students enrolled in the Professional Officer Course are on contract with the government and therefore receive \$150 per month subsistence allowance.

Scholarships covering the cost of tuition, fees, textbooks, and a \$150 monthly allowance for three, and two years are available on a competitive basis to students who demonstrate academic and leadership potential. A one-year scholarship is also available for graduate law and undergraduate nursing students. Scholarship availability is greatest in the areas of mathematics, computer science, physics, engineering, nursing, and premedicine. Traditionally, about half of Cedarville cadets are able to win scholarships.

Students interested in Air Force ROTC should contact the Department of Aerospace Studies, Wright State University, Dayton, Ohio, 45435, phone: (513) 873-2730 or the Cedarville College Admissions Office. Air Force ROTC course requirements count as elective credits in the 192 quarter hours required for graduation.

Air Force ROTC Course Descriptions

AES-100 Leadership Laboratory--A,W,Sp 0 hours

Applied Air Force ROTC training. Credit/No Credit. Taken concurrently with 100-level AES courses.

AES-121 U.S. Military Forces I--A 1 hour

Introduction to Air Force customs and courtesies, professionalism and officership.

AES-122 U.S. Military Forces II--W 1 hour

Introduction to Air Force organization, professions, and the Air Force installation. Explores the mission, organization and weapon systems of Air Combat Command and Air Mobility Command.

AES-123 U.S. Military Forces III--Sp 1 hour

Introduction to defense policy, the military balance, and aspects of terrorism. Explores the mission and organization of the U.S. Navy/Army/Coast Guard, and Air Force Reserve/National Guard.

AES-200 Leadership Laboratory--A,W,Sp 0 hours

Applied Air Force ROTC training. Credit/No Credit. Taken concurrently with 200-level AES courses.

AES-221 Development of Aerospace Power I--A 1 hour

Explores the early development of air power until WWII. Studies center around the historical development of air power employment and on factors that have prompted research and technological change.

AES-222 Development of Aerospace Power II--W 1 hour

Explores the early development of air power from WWII through the Berlin airlift. Studies center around the development of various concepts of air power employment and on historical factors that have prompted research and technological change.

AES-223 Development of Aerospace Power III--Sp 1 hour

Explores the development of air power from the Korean War until the present. Studies center around the development of various concepts of air power employment.

AES-300 Leadership Laboratory--A,W,Sp 0 hours

Applied Air Force ROTC training. Credit/No Credit. Taken concurrently with 300 level AES courses.

AES-331 Quality Air Force Leadership and Management I--A 3 hours

Examines leadership traits with emphasis on the insights provided by leadership research. A thorough review of the implications of the styles in improving leadership techniques is conducted. Provides experience in exercising communicative skills necessary for effective management and leadership.

AES-332 Quality Air Force Leadership and Management II--W 3 hours

Examines total quality management principles. Overview of tools and techniques of process analysis. Planning, organizing, controlling, and staffing are studied extensively.

AES-333 Quality Air Force Leadership and Management III--Sp 3 hours

Examines the Air Force manager's world and elements of the job. Studies the decision-making process as it relates to the individual and the group.

AES-400 Leadership Laboratory--A,W,Sp 0 hours

Applied Air Force ROTC training. Credit/No Credit. Taken concurrently with 400-level AES courses.

AES-431 National Security Forces in Contemporary American Society I--A 3 hours

Analysis of the role and function of the military officer in democratic society, the complex relationships involved in civil-military interactions, and the bureaucratic system for formulating and implementing U.S. defense policy.

AES-432 National Security Forces in Contemporary American Society II--W 3 hours

Continued analysis of the bureaucratic system for formulating and implementing U.S. defense policy, plus analysis of the impact of the domestic and international systems on U.S. defense policy and strategy.

AES-433 National Security Forces in Contemporary American Society III--Sp 3 hours

Analysis of the impact of the domestic and international systems on U.S. defense policy and strategy; introduction to the laws of war and military law; and an exposure to initial commissioned service.



ROTC acquaints students with opportunities available in military careers while providing excellent leadership training.

Army ROTC

Reserve Officer Training Corps (ROTC) instruction leading to a commission as a second lieutenant in the United States Army is available to Cedarville College students. Freshman and sophomore level classes are taught at Cedarville College. Junior and senior level classes as well as drills are conducted at Central State University located four miles west of Cedarville. All Army ROTC courses are taken through Cedarville College.

The objectives of the Army ROTC program are:

1. To prepare students to serve as commissioned officers in the Regular Army, the Army National Guard, or the United States Army Reserve.
2. To provide an understanding of the fundamental concepts of military art and science.
3. To provide students with leadership and managerial training, a basic understanding of military professional knowledge, a strong sense of personal integrity, honor, individual responsibility, and an appreciation of the requirements for national security.

The standard four-year ROTC program involves two phases: the Basic Course during the first two years and the Advanced Course during the final two years. One can qualify for the advance placement by being a veteran, a member of the United States Army Reserve or National Guard, or by attending six weeks of paid summer training following his/her sophomore year of college. Students enrolled in the Advanced Course earn \$150 per month for a maximum of ten school months per year.

Two and three year merit scholarships, which pay for all tuition, fees, and costs of books and supplies are available. Recipients of these scholarships also receive \$150 per month for ten months of the school year each school year the scholarship is in effect.

Students interested in pursuing a dual civilian/military career should request information about the Guaranteed Reserve Forces Duty Scholarships and Reserve Duty options. Special scholarship consideration is given to students accepted to Cedarville College's Nursing Program.

Interested individuals should contact the Professor of Military Science, Central State University, Wilberforce, Ohio, 45384, phone: (513) 376-ARMY or the Cedarville College Admissions Office.

Army ROTC course requirements count as elective credits in the 192 quarter hours required for graduation.

Army ROTC Course Descriptions

MIL-100 Leadership Lab I--A,W,Sp **0 hours**
Applied Army ROTC training. Taken concurrently with 100 level MIL courses.

MIL-101 Military Science I--A **2 hours**
Introduction to the history, role, and organization of the Army and ROTC. Familiarize with rank structure, drill and ceremony, military courtesies, weapons, marksmanship, and leadership styles. Introduction to officership.

MIL-102 Military Science I--W **2 hours**
Introduction to military customs and traditions. Familiarize with communications equipment, and fundamentals of leadership. Understand role of U.S. Army Reserve and U.S. Army National Guard. Understand available career options.

MIL-103 Military Science I--Sp **2 hours**
Introduction to map reading, land navigation, field training, first aid procedures, and physical fitness training. Develop leadership skills.

MIL-200 Leadership Lab II--A,W,Sp **0 hours**
Applied Army ROTC training. Taken concurrently with 200 level MIL courses.

MIL-201 Military Science II--A **2 hours**
Course of study includes emergency first aid procedures, field survival practices, physical fitness, and small unit leadership training. Students will begin to receive leadership assignments and responsibility within the cadet battalion.

MIL-202 Military Science II--W **2 hours**
Continuation of first aid techniques and procedures, development of leadership and managerial skills, drill and ceremony, and small unit training.

MIL-203 Military Science II--Sp **2 hours**
Explores the various career management fields within the Army. Continuation of first aid training, enhancement of leadership skills, orienteering. Introduction to advanced course of study.

MIL-300 Leadership Lab III--A,W,Sp **0 hours**
Applied Army ROTC training. Taken concurrently with 300 level MIL courses.

MIL-303,302,303 Military Science III--A,W,Sp **3 hours each quarter**

The junior year of military science is completely dedicated to developing leadership skills and preparing students for the 6-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 are taught how 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-400 Leadership Lab IV **0 hours**
Applied Army ROTC training. Taken concurrently with 400 level MIL courses.

MIL-401,402,403 Military Science IV--A,W,Sp **3 hours each quarter**

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 position within the Cadet Battalion. Seniors are taught how 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.

MIL-450 Military Science Summer Field Training **3 hours**

Six week field training course stressing the practical application of leadership management, with emphasis on tactical and technical military field skills. Taken after completion of MIL 300 level courses. Prerequisite: Approval of professor of military science.

122 Language and Literature

Purpose

The Department of Language and Literature seeks to achieve the following objectives:

1. To instruct students to speak and write correctly and effectively.
2. To encourage students to read and appreciate the great masterpieces of literature.
3. To teach students to evaluate literature intelligently.
4. To provide a general knowledge of the chronology and the social and intellectual background of English, American, and Spanish literature.
5. To prepare students for graduate work in the fields of English and Spanish.
6. To prepare teachers of English and Spanish.
7. To prepare students for professional and technical writing.

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, although no previous foreign language experience is required to take elementary level foreign language.

Faculty

Raymond Bartholomew, *Chairman*: Professor of English. *Education*: B.A., Cedarville College, 1957; M.A., Case-Western Reserve University, 1959; Ph.D., Case-Western Reserve University, 1964. At Cedarville 1959-1966, 1983 to present.

Michael Corson, Instructor of English. *Education*: B.A., University of Cincinnati, 1971; M.A., McMaster University, 1973; M.A., University of Cincinnati, 1976; Ph.D., University of Cincinnati, 1983. At Cedarville since 1995.

Pat Landers Dixon, Associate Professor of English. *Education*: B.A., Tennessee Temple University, 1963; M.Ed., University of Tennessee, 1970; TESL, Wright State University, 1985. At Cedarville since 1971.

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

Kevin Heath, Assistant Professor of English. *Education*: B.A., Northeast Missouri State University, 1986; M.A., Michigan State University, 1988; graduate study, Grand Rapids Baptist Seminary, 1989. At Cedarville since 1990.

Philip Jones, Associate Professor of Spanish. *Education*: A.B., Grace College, 1964; M.S., Georgetown University, 1970; Ph.D., Catholic University, 1978. At Cedarville since 1989.

Brian Kennedy, Assistant Professor of English. *Education*: B.A., Cedarville College, 1985; M.A., Wright State University, 1987; Ph.D., Miami University, 1993. At Cedarville since 1989.

Barbara Loach, Associate Professor of Spanish. *Education*: B.A., Cedarville College, 1977; M.A., Bowling Green University, 1978; Ph.D., The Ohio State University, 1990. At Cedarville since 1978.

Karen Power, Instructor of English. *Education*: B.S., The Ohio State University, 1976; M.A., Wright State University, 1995.

Carolyn Simons, Instructor of English. *Education*: B.M., Baylor University, 1971; M.M., Baylor University, 1971; Ph.D., University of Iowa, 1995. At Cedarville since 1995.

Jack Simons, Assistant Professor of English. *Education*: B.A., Moody Bible Institute, 1974; M.A., Andrews University, 1986; M.F.A., University of Iowa Writers Workshop, 1989; M.A., University of Iowa, 1991. At Cedarville since 1991.

James Snowden, Assistant Professor of English. *Education*: B.A., Grand Rapids Baptist College, 1979; J.D., University of Chicago Law School, 1982; M.A., The Ohio State University, 1993. At Cedarville since 1987.

Edward Spencer, Professor of English. *Education*: B.A., Ashland College, 1947; M.Th., Faith Seminary, 1951; M.A., University of Dayton, 1968; graduate study, Bowling Green State University, 1969. At Cedarville since 1962.

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.

Michelle Wood, Instructor of English. *Education*: B.A., Cedarville College, 1992; graduate study, Wright State University. At Cedarville since 1995.

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; Language Study, Germany, June-Nov., 1978; June-July, 1980. At Cedarville from 1958 to 1990.

Programs of Study

The Department of Language and Literature offers the following programs:

Majors in:

- English
- English education
- Professional writing
- Spanish
- Spanish education

Minors in:

- Creative writing
- English
- Spanish

Special Programs:

- TESL (Teaching English as a Second Language)

Career Opportunities

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

- attorney
- copy writer
- editor
- international business
- journalist
- linguist
- minister
- missionary
- personnel director
- salesman
- teacher
- teacher of English to speakers of other languages
- technical writer

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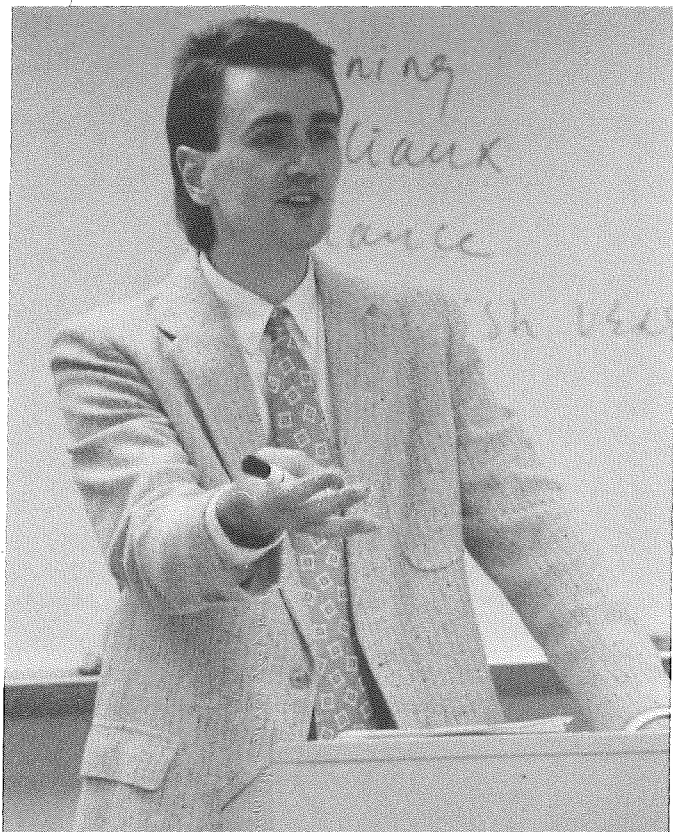
English

Course requirements for the **English major** involve seventy-four quarter hours including:

ENG-140 English Composition II	5
ENG-223 Advanced Composition	3
(or ENG 303 or ENG-304 Creative Writing	3)
LIT-231 World Literature	5
ENG-252 Major American Authors II	5
(or LIT-338 Contemporary British Literature	5)
ENG-305 The English Language	5
PWRT-311 Style and Mechanics for Writers	4
LIT-335 Shakespeare	5
LIT-421 Literary Criticism	3
ENG-422 English Seminar	3
American Literature (one course)	5
English Literature (one course)	5
Electives in English	26

English Major Curriculum Summary

Proficiency requirements	0-8
English major requirements	74
Other General Education requirements	70-90
Electives	30-52
Total (minimum, not including proficiency)	192



In June of 1995 literature professor Brian Kennedy traveled to a conference in Moscow, Russia, to present a paper on Russian literary scholar Mikhail Bakhtin.

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in English

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSCI-161 Introduction Physical Science	5
HUM-140 Introduction to the Humanities	5
PEF-199 P.A.C.L.	2
Language and/or electives	17
Physical education elective	1
Total	48

Second year:

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
BIO-100 Principles of Biology	5
COM-110 Fundamentals of Speech	5
ENG-231 World Literature	5
ENG-305 The English Language	5
GSS-100 Foundations of Social Science	5
HIST-111 United States History before 1865	5
LIT-334 19th Century English Literature	5
Math elective	5
Total	48

Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
ENG-223 Advanced Composition	3
PWRT-311 Style and Mechanics for Writers	4
LIT-329 British Lit.: Beginnings through Renaissance	5
LIT-335 Shakespeare	5
LIT-339 American Romanticism	5
Humanities elective	5
Social science elective	5
Electives	8
Total	48

Fourth year:

LIT-330 British Lit.: Renaissance to Romanticism	5
LIT-336 American Realism and Naturalism	5
LIT-338 20th Century British Literature	5
LIT-421 Literary Criticism	3
LIT-422 Seminar	3
Electives	27
Total	48

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English Education

The **English education major** prepares students to teach English in both public and Christian schools in grades 7-12. Students who complete this curriculum will be certified by the State of Ohio and the Association of Christian Schools International. The Ohio teaching certificate, through reciprocal agreements, is automatically recognized in twenty-six states. Those planning to teach in states other than Ohio should consult with the "Department of Education" to be aware of special requirements in states where reciprocity has not been established.

Students desiring English as a second teaching field must complete all of the requirements for the English education major. Candidates for secondary English education must pass a departmental screening test usually administered at the end of the sophomore year.

Course requirements involve fifty-eight quarter hours including:

ENG-223 Advanced Composition	3
(or ENG-303 or ENG-304) Creative Writing	3
ENG-305 The English Language	5
ENG-307 Advanced Grammar	5
PWRT-311 Style and Mechanics for Writers	4
ENG-352 Developmental Reading	5
LIT-231 World Literature	5
LIT-251 Major American Authors I	5
LIT-252 Major American Authors II	5
LIT-261 Major British Authors I	5
LIT-262 Major British Authors II	5
LIT-320 Methods of Teaching Composition and Lit.	3
LIT-335 Shakespeare	5
LIT-421 Literary Criticism	3

Students must also complete the secondary professional education requirements which involve forty quarter hours including:

EDUC-100 Introduction to Education	2
EDUC-101 Field Experience	2
EDUC-102 Education of the Exceptional Child	2
EDUC-270 Audio Visual Methods	1
EDUC-201 Preliminary Student Involvement	0
EDUC-300 Learner and the Learning Process	4
EDUC-301 Tutoring for Secondary Education	1
EDUC-302 Teaching Thinking Skills	2
EDUC-316 Principles of Teaching	4
EDUC-317 Field Experience	4
EDUC-321 Philosophy of Education	3
EDUC-450 Supervised Teaching and Seminar	15

English Education Major Curriculum Summary

Proficiency requirements	0-8
Other General Education requirements	70-92
English education major requirements	58
Education requirements	46
Electives	0-17
Total (minimum, not including proficiency)	192-197

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in English Education

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
ENG-110 English Composition I	5
ENG-140 English Composition II	5
HIST-111 United States History before 1865	5
LIT-231 World Literature	5
PEF-199 P.A.C.L.	2
Language and/or electives	17
Physical education elective	1
Total	48

Second year:

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
COM-110 Fundamentals of Speech	5
EDUC-100 Introduction to Education	6
EDUC-300 Learner and the Learning Process	4
EDUC-321 Philosophy of Education	3
ENG-305 The English Language	5
LIT-251 Major American Authors I	5
LIT-252 Major American Authors II	5
LIT-261 Major British Authors I	5
Total	46

Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
BIO-100 Principles of Biology	5
EDUC-200 Audio Visual Methods	1
EDUC-316 Principles of Teaching	4
EDUC-317 Field Experience	4
PWRT-311 Style and Mechanics for Writers	4
ENG-223 Advanced Composition	3
ENG-335 Shakespeare	5
ENG-262 Major British Authors II	5
GSCI-161 Introduction Physical Science	5
HUM-140 Introduction to the Humanities	5
LIT-421 Literary Criticism	3
Total	52

Fourth year:

EDUC-302 Technical Thinking Skills	2
EDUC-320 Children's Literature	3
EDUC-450 Supervised Teaching and Seminar	16
ENG-307 Advanced Grammar	5
ENG-352 Developmental Reading	5
GSS-100 Foundations of Social Science	5
LIT-320 Methods of Teaching Composition and Literature ...	3
Mathematics elective	5
Social Science elective	5
Total	49

Professional Writing Major

The professional writing major prepares students for positions as writers and editors in a variety of industries. The major itself involves forty quarter hours in specific professional writing courses. The professional writing major must begin the fall quarter of the junior year.

Course requirements for a major in professional writing involve seventy quarter hours including:

<i>English</i>	30
ENG-140 English Composition II	5
LIT-231 World Literature	5
American Literature (one course)	5
English Literature (one course)	5
Electives in English	10
<i>Professional Writing</i>	40
PWRT-210 Proofreading	3
PWRT-311 Style and Mechanics for Writers	4
PWRT-315 Public Relations Writing	5
PWRT-316 Technical Communication	5
PWRT-317 Graphic Design	5
PWRT-413 Technical Editing	3
PWRT-414 Report Writing	5
PWRT-415 Special Topics for Prof. Communicators	5
PWRT-419 Design of Manuals	5

Professional Writing Major Curriculum Summary

Proficiency requirements	0-8
Other General Education requirements	65-87
Professional writing course requirements	70
Electives	28-50
Total (minimum, not including proficiency)	192



Members from the College's student chapter of the Society for Technical Writers presented their work at the national convention.

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in Professional Writing

<i>First year:</i>	
BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
BIO-100 Principles of Biology	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
HUM-140 Introduction to the Humanities	5
PEF-199 P.A.C.L.	2
Language and/or electives	15
Physical education elective	1
Total	48
<i>Second year:</i>	
BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
COM-110 Fundamentals of Speech	5
ENG-221 Principles of Journalism	5
ENG-223 Advanced Composition	3
GSS-100 Foundations of Social Science	5
LIT-231 World Literature	5
Mathematics elective	5
Physical science elective	5
Electives	2
Total	48
<i>Third year:</i>	
BEGE-375 God and History	4
BEGE-376 God and the Church	4
HIST-111 United States History before 1865	5
PWRT-311 Style and Mechanics for Writers	4
PWRT-315 Public Relations Writing	5
PWRT-316 Technical Communication	5
PWRT-317 Graphic Design	5
Humanities elective	5
Electives	17
Total	53
PWRT-210 Proofreading	3
(taken summer of sophomore or junior year)	
<i>Fourth year:</i>	
PWRT-414 Report Writing	5
PWRT-415 Special Topics for Prof. Communication	5
PWRT-416 Internship	0-16
PWRT-419 Design of Manuals	5
Social science elective	5
Electives	29
Total	48

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A complete description of the General Education Requirements is found on page 31.

Foreign Language

The Language and Literature Department believes that a living language can be learned properly only as the student masters the pronunciation, develops the ability to understand both the spoken and written language, and is able to express himself intelligently in a number of cultural contexts.

The General Education requirement in foreign language is satisfied by completing two years of the same modern or classical (Latin, Greek) language in high school or by successfully completing the final term of an elementary foreign language in college.

Language students are encouraged to consider the Study Abroad Program of the Coalition for Christian Colleges and Universities, which is described under Special Programs of Study.

Spanish

The **Spanish major** provides students with the cultural background and language skills needed to function in a Spanish-speaking context. When taken as an education major with the secondary education requirements, this major prepares students to teach Spanish in grades K-12 in public and Christian schools. The Spanish education requirements are listed in the Education Department section of the catalog.

Course requirements involve forty-eight quarter hours including:

SPAN-271,272 Intermediate Spanish	10
SPAN-361 Spanish Composition	4
SPAN-362 Spanish Conversation	4
SPAN-364 Introduction to Hispanic Literature	5
SPAN-461 Advanced Spanish Grammar	5
<i>Two courses from:</i>	
SPAN-462,463,472,473 Spanish Literature	8
Electives in Spanish	12

Spanish Major Curriculum Summary

Proficiency requirements	0-8
Other General Education requirements	75-97
Spanish major requirements	48
Electives	47-69
Total (minimum, not including proficiency)	192

Suggested Four-Year Curriculum for a Major in Spanish

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSCI-161 Introduction to Physical Science	5
HUM-140 Introduction to the Humanities	5
PEF-199 P.A.C.L.	2
SPAN-171-173 Elementary Spanish*	15
Electives	2
(or SPAN-271,272 Intermediate Spanish	10)
Electives	7
Physical education elective	1
Total	48

* Elementary Spanish does not count toward the major.

Second year:

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
BIO-100 Principles of Biology	5
COM-110 Fundamentals of Speech	5
GSS-100 Foundations of Social Science	5
SPAN-271-272 Intermediate Spanish	10
English/Literature elective	5
History elective	5
Mathematics elective	5
Total	48

Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
SPAN-361 Spanish Composition	4
SPAN-362 Spanish Conversation	4
SPAN-364 Introduction to Hispanic Literature	5
Social science elective	4
Electives	24
Total	48

Fourth year:

SPAN-460 Hispanic Civilization	4
SPAN-461 Advanced Spanish Grammar	5
Spanish literature electives	8
Spanish electives	8
Electives	22
Total	47

Spanish Education

The **Spanish education major** provides students with the cultural background and language skills to function in the Spanish classroom as well as the Spanish-speaking world. With the secondary education requirements, this major prepares students to teach in grades K-12 in public and Christian schools. The Spanish education requirements are listed in the Education Department section of the catalog.

Minors

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

ENG-140 English Composition II	5
ENG-221 Principles of Journalism	5
ENG-223 Advanced Composition	3
ENG-303 Creative Writing (fiction)	3
ENG-304 Creative Writing (poetry).....	3
ENG-311 Style and Mechanics	4
PWRT-416 Professional Writing Internship (writing for Cedars)	1

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

ENG-140 English Composition II	5
LIT-231 World Literature	5
Electives in English	14

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

SPAN-171,172,173 Elementary Spanish	15
SPAN-271,272 Intermediate Spanish	10
SPAN-361 Spanish Composition	4
(or SPAN-362 Spanish Conversation	4)
Electives in Spanish literature	3

TESL (Teaching English as a Second Language)

The **TESL** program equips students to teach English to individuals whose native language is not English. Students who complete these course requirements along with those of another teaching field will qualify for State of Ohio certification.

Course requirements include thirty-one quarter hours including:

COM-314 Intercultural Communications	4
ENG-305 History of the English Language	5
ENG-307 Advanced English Grammar	5
LING-308 Linguistics for Language Learning	5
LING-309 Sociolinguistics	4
LING-360 Clinical Experience	2
LING-361 Practicum	3
SPAN/LING-370 Teaching Foreign Language	3



Professor Barbara Loach added to her extensive crosscultural experience by teaching English in Santiago, Chile, during Fall Quarter, 1994.

Course Descriptions

English Language

ENG-100 Basic English--A **4 hours**

A 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-110 English Composition I--A,W,Sp,Su **5 hours**

Emphasis is placed on the study of mechanics, sentence structure, and paragraph development.

ENG-140 English Composition II--A,W,Sp,Su **5 hours**

Emphasis on expository and argumentative modes in composing essays and a research paper. Prerequisite: ENG-110 English Composition I or equivalent.

ENG-221 Principles of Journalism--A **5 hours**

Fundamentals of collecting, evaluating, writing, copyreading, editing, and headlining material for stories, features, and editorials. May count toward the English major. Prerequisite: ENG-140 English Composition II.

ENG-223 Advanced Composition--Sp **3 hours**

The process of composing essays is emphasized. Revision, writing workshops, and peer evaluation are included. Prerequisite: ENG-140 English Composition II.

ENG-303 Creative Writing: Fiction **3 hours**

An intensive study in the techniques for the creation of short fiction. Prerequisite: ENG-140 English Composition II.

ENG-304 Creative Writing: Poetry **3 hours**

An intensive study in the techniques for the creation of poetic forms. Prerequisite: ENG-140 English Composition II.

ENG-305 The English Language--A **5 hours**

An 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-140 English Composition II. (even years)

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ENG-307 Advanced Grammar for Secondary English

Teachers--A 5 hours

A review of standard grammar with emphasis on current teaching methods of grammatical analysis. Required of all majors with English as a teaching field. Field experience in teaching English grammar is included.

ENG-322 Advanced Journalism--W 3 hours

A course designed for the student who anticipates writing as a vocation or avocation. The emphasis is on magazine writing and the steps toward preparing and submitting a manuscript for publication. Prerequisite: ENG-140 English Composition II.

ENG-352 Developmental Reading--W 5 hours

Includes basic philosophies, testing and evaluation, clinical methods, and materials utilized in the prescriptive teaching of basic reading skills in the English content area in secondary schools. Field and clinical experiences included. Prerequisite: Admission to the teacher education program.

ENG-362 Practicum in Journalism--A,W,Sp 1 hour

Experience in the varied tasks of the journalistic enterprise.

World, English, and American Literature

LIT-230 Introduction to Literature--A,Sp 5 hours

Emphasis on developing ability to read critically and analytically representative examples of literary genres through use of appropriate criteria. Prerequisite: ENG-140 English Composition II.

LIT-231 World Literature--A,W,Su 5 hours

A survey of major works of the Western literary tradition from Homer to T.S. Eliot. Prerequisite: ENG-140 English Composition II.

LIT-233 Mythology 5 hours

A study of mythologies, the theories of myth and mythmaking, and the development of myth to modern times. Prerequisite: ENG-140 English Composition II.

LIT-251 Major American Authors I--A 5 hours

A study of prominent American authors from colonial times to 1900. Prerequisites: Eng-140 English Composition II, LIT-231 World Literature, or major status in English secondary education, professional writing, elementary education, emphasis in language arts, or permission of instructor.

LIT-252 Major American Authors II--W 5 hours

A study of central American authors of the twentieth century. Prerequisites: ENG-140 English Composition II, LIT-231 World Literature, or major status in English secondary education, professional writing, elementary education, emphasis in language arts, or permission of instructor.

LIT-261 Major British Authors I 5 hours

A study of canonical English authors from the Anglo-Saxons to the Romantic era. Prerequisites: ENG-140 English Composition II, LIT-231 World Literature, or major status in English secondary education, professional writing, elementary education, emphasis in language arts, or permission of instructor.

LIT-262 Major British Authors II 5 hours

A study of noteworthy English authors from 1800 to the present. Prerequisites: ENG-140 English Composition II, LIT-231 World Literature, or major status in English secondary education, professional writing, elementary education, emphasis in language arts, or permission of instructor.

LIT-320 Methods of Teaching Composition and Literature--A 3 hours

Designed to explore the various methods and materials essential to the teaching of composition and literature on the secondary level.

LIT-323 Directed Readings--A,W,Sp 1-4 hours

Selected readings designed to strengthen the major by providing primary and secondary material in preparation for an independent study of a major writer, literary genre, or literary period.

LIT-329 British Literature: Beginnings through Renaissance --Sp 5 hours

A study of major canonical writings from Old, Middle, and early Modern periods. Prerequisite: major status, or permission of instructor.

LIT-330 British Literature: From Renaissance to Romanticism--W 5 hours

A study of the metaphysicals, Milton, Pope, Swift, and Johnson. Prerequisite: Major status, or permission of instructor.

LIT-331 The English Novel--W 4 hours

A reading and critical analysis of representative novels of the period from Sterne to Barnes. Prerequisite: ENG-140 English Composition II.

LIT-334 Nineteenth Century English Literature--Sp 5 hours

A study of the major Romantic and Victorian writers, giving emphasis to Wordsworth, Byron, Shelley, Keats, Browning, Arnold, and Tennyson. Prerequisite: Major status, or permission of instructor.

LIT-335 Shakespeare--W 5 hours

Representative comedies, history plays, tragedies, and sonnets. Prerequisite: Major status, or permission of instructor.

LIT-336 American Realism and Naturalism--Sp 5 hours

American literature from 1865-1900, with emphasis on the local color movement; Twain, James, Howells, Crane, Dreiser, and Norris. Prerequisite: Major status, or permission of instructor.

LIT-338 Contemporary British Literature--A 5 hours

A study of representative and significant 20th century British writers, especially those reflective of modern ideologies. Prerequisite: Major status, or permission of instructor.

LIT-339 American Romanticism--W 5 hours

A study of American writers from 1830-1865, emphasis on Poe, Hawthorne, Melville, Emerson, Thoreau, and Whitman. Prerequisite: Major status, or permission of instructor.

LIT-342 American Novel 4 hours

A study of the historical development of the American novel, and an analysis of the writings of major American novelists from Cooper to Faulkner. Prerequisite: Major status, or permission of instructor.

LIT-413 Dramatic Literature--Sp 4 hours

Emphasis upon the relationships among styles, theory, criticism, and dramatic construction. Can be applied to meet English or speech requirements, but not both. Prerequisite: Major status, or permission of instructor.

LIT-421 Literary Criticism--Sp 3 hours

A study of major critical theories from ancient times to the present. Prerequisite: 200 or 300 level literature course. Required for all secondary and English majors.

LIT-422 English Seminar--W 3 hours

Designed to help the student synthesize his major areas of study. Required of all senior English majors.

LIT-423 Independent Study in English--A,W,Sp 1-4 hours

Independent study in a selected field for students with special interests and demonstrated ability.

LIT-442 European Novel 4 hours

A study of the 19th and 20th century influence on the novel from Balzac to Camus. Prerequisite: Major status, or permission of instructor.

LIT-449 Special Topics--A,W,Sp 1-5 hours

An investigation of such literary phenomena that have intrinsic worth and engage student interest.

Professional Writing

PWRT-210 Proofreading--Su 3 hours

Students will learn to read proof using the techniques that professional proofreaders have found most practical and effective.

PWRT-311 Style and Mechanics for Writers--A 4 hours

A prescriptive approach to a clear, concise prose which is grammatically correct. Prerequisite: Permission of instructor.

PWRT-315 Public Relations Writing--W 5 hours

A study in which students learn to generate newsletters, press releases, and sales literature. Prerequisites: PWRT-311 Style and Mechanics for Writers, PWRT-317 Graphic Design.

PWRT-316 Technical Communication--W 5 hours

A study of technical communication in which students learn to produce effective technical documents. Prerequisite: PWRT-317 Graphic Design.

PWRT-317 Graphic Design--A 5 hours

This course provides instruction for the development of effective and usable graphics for professional documentation. Students will gain proficiency in desktop publishing and computer graphics tools. Prerequisite: Permission of instructor.

PWRT-413 Technical Editing--Sp 3 hours

This course addresses the roles, responsibilities, and practices of the editor of technical communication. Students learn how to establish effective relationships with authors, edit manuscripts to make them clear to readers or consistent with the policies of an organization, mark copy for typesetters, and create and use style guides. Prerequisite: PWRT-311 Style and Mechanics for Writers, PWRT-316 Technical Communication.

PWRT-414 Report Writing--A 5 hours

A study of the techniques necessary for writing clear, well-organized reports of various kinds. Prerequisite: PWRT-311 Style and Mechanics, PWRT-316 Technical Communication.

PWRT-415 Special Topics for Professional Communicators--W 5 hours

Students will participate in a class project incorporating new technology and alternative ideas for information development. Prerequisites: PWRT-416 Technical Communication, PWRT-414 Report Writing.

PWRT-416 Professional Writing Internship--A,W,Sp 1-16 hours

A work-study program arranged and administered by the department in which advanced professional writing students receive a variety of job-related experiences in a writing environment. Prerequisite: Permission of instructor.

PWRT-419 Design of Manuals--A 5 hours

An intensive study of planning, designing, and writing of end-user documentation. Traditional and innovative designs are treated.

Foreign Language

Spanish

SPAN-171,172,173 Elementary Spanish--A,W,Sp 5 hours each quarter

Development of basic skills in reading, writing, speaking and listening in Spanish, along with an introduction to Hispanic cultures. (Offered also in the summer, odd years)

SPAN-271,272 Intermediate Spanish--A,W 5 hours each quarter

Grammar review, composition, conversation, and readings in Spanish literature and culture. Prerequisite: SPAN-173 or instructor's approval, or placement by exam.

SPAN-360 Clinical Teaching in Spanish 1-3 hours each quarter

A practical, on-campus experience in which a student is assigned to assist a college instructor in preparation for classes, grading of reports and papers, tutoring students, and conducting small conversational practice sessions for students in Elementary Spanish. The student is expected to participate in twenty-two clock hours for each hour of credit. Prerequisite: Admission to the teacher education program.

SPAN-361 Spanish Composition--A 4 hours

Emphasis on development of clear, natural, and effective written communication in Spanish. Includes grammar review, vocabulary expansion, discussion of stylistic elements and extensive writing practice. Prerequisite: SPAN-272 Intermediate Spanish or permission of instructor.

SPAN-362 Spanish Conversation--W 4 hours

A course designed to sharpen the student's communication skills in oral Spanish, as well as to increase aural comprehension of spoken Spanish. Attention given to pronunciation, vocabulary building, grammar, and practice in hearing and speaking through in-class presentations and other activities. Prerequisite: SPAN-272 Intermediate Spanish or permission of instructor.

SPAN-363 Chicano Literature--Sp 3 hours

The study of the literary works of Spanish Americans, emphasizing the Mexican-American. Includes short story, drama, poetry, and novel. Course taught in English and open to all students.

(even years)

SPAN-364 Introduction to Hispanic Literature--Sp 5 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. Prerequisite: SPAN-272 Intermediate Spanish or permission of instructor.

SPAN/LING-370 Teaching Foreign Language--W 3 hours

Examination of the purposes and objectives along with the methods used in the secondary level foreign language classroom. Prerequisite: Admission to the teacher education or TESL Program.

SPAN-460 Hispanic Civilization--A 4 hours

In-depth study of Spanish or Latin American cultural and historical backgrounds. Course alternates yearly between Spain and Latin America and serves partly as introduction to literature survey courses. Repeatable to eight hours, provided that both Latin America and Spain are studied. Prerequisite: SPAN-273 Intermediate Spanish or permission of instructor.

SPAN-461 Advanced Spanish Grammar--Sp 5 hours

Detailed examination of grammatical structures in Spanish, in comparison/contrast with similar structures in English. Emphasizes both the theoretical aspect of the nature of language, and the practical development of written and oral skills in Spanish. Prerequisite: Permission of instructor. (even years)

SPAN-462,463 Spanish American Literature--W,Sp 4 hours each quarter

American literature from pre-Hispanic time until the present day. Prerequisite: SPAN-364 Introduction to Hispanic Literature.

SPAN-464 Topics in Hispanic Culture--Sp 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. Prerequisites: Major/minor in Spanish and instructor's permission. (odd years)

SPAN-470 Independent Study in Spanish--A,W,Sp 1-4 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-472,473 Masterpieces of Spanish Literature--W,Sp 4 hours each quarter

A study of major literary works of Spain from the medieval and Renaissance periods to the present day. Prerequisite: SPAN-364 Introduction to Hispanic Literature.

SPAN-478 Cervantes 4 hours

A study of Miguel de Cervantes' works including Don Quixote and selected short stories. Offered in English for non-majors. Prerequisite: SPAN-364 or permission of instructor.

French

FREN-191,192,193 Elementary French 5 hours each quarter

Development of basic skills in reading, writing, speaking and listening in French, along with an introduction to French culture. (even years)

German

GER-181,182,183 Elementary German 5 hours each quarter

Development of basic skills in reading, writing, speaking, and listening in German, along with an introduction to German culture. (odd years)

Linguistics

LING-308 Linguistics for Language Learning--A 5 hours

An analytical approach of language functioning applicable to learning any second language. Topics include phonology, morphology, and syntax. (even years)

LING-309 Sociolinguistics--W 4 hours

An overview of the relationships between language and society. Topics include ethnicity, culture, social contact, and change. (even years)

LING-360 Clinical Experience--A,W,Sp 2 hours

Practical experience in assisting an instructor in an ESL program.

LING-361 Practicum--A,W,Sp 3 hours

Independent teaching of ESL under general supervision of master teacher. (Fee: \$25)

130 Music

Purpose

The purpose of the Department of Music is to help develop an appreciation and understanding of the musical arts consistent with a biblical world view. The department seeks to help students gain an understanding of the responsibility of stewardship that is placed upon those to whom God has given musical talents.

The Department of Music seeks to:

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

Personal Requirements

New Students

Auditions Applicants wishing to major in music should follow the standard procedure for admission to Cedarville College. *However, final admission to the music program is by audition.* Audition requirements may be obtained by writing to the Department of Music.

Scholarships Scholarship assistance is available to music majors who qualify on the basis of audition, academic record, and references. Additional academic scholarships and other types of financial assistance are available to qualified individuals through the Cedarville College Financial Aid Office.

Music Theory Placement Examination All students who enroll in any of the various majors offered by the Music Department, and students pursuing a music minor, may take the Music Theory and Aural Skills Examination for test-out credit. This test is administered during College Week in the Fall Quarter. Additional information may be secured by writing the Department of Music.

Fees Instrumental rental fee, per quarter: \$25; practice room fee, per quarter: \$20 (each hour of lesson credit).

Continuing Students

Sophomore Review All music majors must meet the requirements established by the department for sophomore-level performance proficiency in their primary performance area in order to continue in the music program. This review is typically held spring quarter at the end of the sophomore year.

Piano Proficiency All music majors and minors are expected to meet the minimum proficiency requirements for piano as established by the department. Music majors (other than keyboard) must take 3 hours of Class Piano, or test out. Students who test out of Class Piano must take a total of 3 credit hours of private piano.

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 which meets the requirements and standards of the department. For Performance, Keyboard Pedagogy, Church Music, Theory/Composition and Music Education majors, the capstone requirement is a Senior Recital. For Music History majors the requirement is a Junior Recital and a Senior Capstone Project.

Music Student Handbook Every music major and minor will receive a *Music Student Handbook* upon entering the music program. The 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 both in the handbook and the College catalog.



Cedarville music groups travel locally, regionally, and internationally. The Concert Chorale pictured here toured the Czech Republic during Spring Break of 1995.

Faculty

Charles Clevenger, *Chairman*; Associate Professor of Music. *Education*: B.A., Bob Jones University, 1974; Piano Student of Imogene Darline, Lawrence 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.

Lyle Anderson, Professor of Music. Director, Concert Chorale and Men's Glee Club. *Education*: B.M.E., Cedarville College, 1970; M.A., The Ohio State University, 1971; Ph.D., The Ohio State University, 1977. At Cedarville since 1970.

James Colman, Assistant Professor of Music. *Education*: B.S., Grace College, 1982; M.M., Michigan State University, 1986; Ph.D., Michigan State University, 1990. At Cedarville since 1989.

Michael DiCuirci, Associate Professor of Music. Director, Symphonic Band, Yellow Jacket pep band. *Education*: B.M., University of Michigan, 1971; Euphonium/Trombone Student of Fred Snyder, Abe Torchinsky, and Glenn Smith; M.M., University of Michigan, 1977. At Cedarville since 1979.

David Matson, Professor of Music. *Education*: B.A., Cedarville College, 1960; graduate study, State College of Iowa, 1962-63; M.A., The Ohio State University, 1968; Ph.D., The Ohio State University, 1978. At Cedarville since 1965.

John Mortensen, Assistant Professor of Music. *Education*: B.M.A., University of Michigan, 1988; M.M., University of Maryland, 1990; D.M.A. University of Maryland, 1994. At Cedarville since 1995.

Charles Pagnard, Associate Professor of Music. Director, Brass Choir; principal trumpet, Dayton Philharmonic. *Education*: B.M., Bowling Green State University, 1970; trumpet student of Sidney Mear, Richard Jones, Edwin Betts, and Ettore Chiudioni; M.M., Eastman School of Music, 1976; graduate study, University of Cincinnati College-Conservatory of Music, 1984-. At Cedarville since 1977.

Mark Spencer, Assistant Professor of Music. Director, Oratorio Chorus. *Education*: B.A., Judson College, 1981; M.M., Southwestern Baptist Theological Seminary, 1984; D.M.A., Southwestern Baptist Theological Seminary, 1992. At Cedarville since 1993.

Adjunct Faculty

Connie Anderson, piano, keyboard pedagogy
Lori Akins, flute
Linda Atsalis, piano, music education
Theodore Atsalis, bassoon/double reed methods
Terry Chamberlain, art
Mary Cory, voice and Director, Women's Chorus
Alaine Pakkala, keyboard pedagogy
Lawrence Pitzer, guitar
Tom Sherwood, french horn
Beth Sievers, violin
Carolyn Simons, aural skills
Benita Tse, keyboard pedagogy
Jane Varella, percussion
Phyllis Warner, organ/piano, keyboard pedagogy
Steve Winteregg, tuba

Programs of Study

The Department of Music offers the following programs of study:

Majors in:

Music with emphases in:

- Church music
- Keyboard pedagogy
- Music History
- Music Theory/Composition
- Performance

Music education (bachelor of music education):

- Choral
- Instrumental

Secondary music education:

- Choral
- Instrumental

Minors in:

- Church music
- Music

Special Program:

- Multimedia Technologies

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
- performer
- retail music salesperson
- school teacher (elementary and secondary Christian or public schools)
- studio teacher

132 Music

Music

The **music major** prepares students for positions in church music, teaching piano, graduate school, and performance. Emphases are available in church music, keyboard pedagogy, music history, music theory, and performance.

Course requirements involve seventy-one quarter hours in core requirements and an additional twenty-five to thirty-six quarter hours in one of five areas of emphasis.

<i>Music core requirements</i>	71
CDMU-260 Introduction to Conducting	3
GMUS-100 Introduction to Music Philosophy	1
GMUS-103 Prog. and Recital Attendance (each qtr.)	0
HLMU-231 Introduction to Music Literature	4
HLMU-331,332,333 Music History I,II,III	9
PFMU- Ensemble Performance	6
PLMU- Private Lessons	12
PLMU-490 Senior Recital	1
THMU-121,122,123 Theory I,II,III	9
THMU-131,132,133 Aural Skills I,II,III	6
THMU-224,225,226 Theory IV,V,VI	9
THMU-234,235 Aural Skills IV,V	2
THMU-314 Functional Keyboard Skills	3
THMU-411 Form and Analysis	3
THMU-413 Orchestration	3

The **church music emphasis** prepares students for positions as church musicians. Music majors with a church music emphasis must complete the General Education Requirements, the music major core requirements, and twenty-five quarter hours in church music including:

CDMU-363 Choral Methods and Repertoire	3
(or CDMU-362 Instrumental Conducting	3)
CHMU-200 The Christian at Worship	2
CHMU-203 Instrumental Ensembles in the Church	2
CHMU-204 Audio Resources for the Church	2
CHMU-209 Introduction to Hymn Playing	1
CHMU-250 Hymnology	3
CHMU-253 Song Leading	2
CHMU-350 Plan and Direct Church Music Ministry	3
CHMU-353 Music Methods and Materials for Children and Youth	3
CHMU-410 Church Music Practicum	2
CLMU-286 Intermediate Voice Class	2

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Music Major with a Church Music Emphasis

<i>First year:</i>	
BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GMUS-100 Introduction to Music Philosophy	1
GMUS-103 Program and Recital Attendance	0
GSS-100 Foundations of Social Science	5
HUM-140 Introduction to Humanities	5
PFMU- Ensemble	3
PLMU- Private lessons	3
THMU-121,122,123 Theory I,II,III	9
THMU-131,132,133 Aural Skills I,II,III	6
History elective	4-5
Total	51-52
<i>Second year:</i>	
BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
CDMU-260 Introduction to Conducting	3
CHMU-200 The Christian at Worship	2
CHMU-203 Instrumental Ensembles in the Church	2
CHMU-209 Introduction to Hymn Playing	1
CHMU-253 Song Leading	2
CLMU-286 Intermediate Voice Class	2
COM-110 Fundamentals of Speech	5
GMUS-103 Program and Recital Attendance	0
HLMU-231 Introduction to Music Literature	4
PEF-199 P.A.C.L.	2
PFMU- Ensemble	3
PLMU- Private lessons	3
THMU-224,225,226 Theory IV,V,VI	9
THMU-234,235 Aural Skills IV,V	2
Physical science elective	5
Total	53
<i>Third year:</i>	
BEGE-375 God and History	4
BEGE-376 God and the Church	4
CDMU-362 Instrumental Conditioning	3
(or CDMU-363 Choral Methods and Repertoire	3)
CHMU-250 Hymnology	3
CHMU-350 Plan. and Direct. Church Music Ministry	3
GMUS-103 Program and Recital Attendance	0
HLMU-331,332,333 Music History I,II,III	9
PFMU- Ensemble	0
PLMU- Private lesson	3
THMU-411 Form and Analysis	3
Biological science elective	5
Literature elective	5
Physical education elective	1
Elective	5
Total	48
<i>Fourth year:</i>	
CHMU-204 Audio Resources for the Church	2
CHMU-353 Music Meth. and Mater. for Child. and Youth	3
CHMU-410 Church Music Practicum	2
GMUS-103 Program and Recital Attendance	0
PFMU- Ensemble	0
PLMU- Private lessons	3
PLMU-490 Senior Recital	1
THMU-314 Functional Keyboard Skills	3
THMU-413 Orchestration	3
Humanities elective	4-5
Mathematics/science elective	5
Social science elective	4-5
Electives	15
Total	45-47

The **keyboard pedagogy emphasis** prepares students to teach piano. Professional certification may be obtained by completing these course requirements and applying for certification. Music majors with a keyboard pedagogy emphasis must complete the General Education Requirements, the music major core requirements and twenty-five quarter hours in keyboard pedagogy including:

KPMU-201 Keyboard Pedagogy I	4
KPMU-202 Keyboard Pedagogy II	4
KPMU-203 Keyboard Pedagogy III	4
KPMU-311 Directed Teaching	1
KPMU-312 Directed Teaching	1
KPMU-313 Directed Teaching	1
KPMU-401 Class Piano Pedagogy	1
KPMU-402 Studio Business Practice	1
KPMU-403 Survey of Adv. Pre-College Literature	1
KPMU-411 Directed Teaching	1
KPMU-412 Directed Teaching	1
KPMU-413 Directed Teaching	1
THMU-322 Synthesizer Applications in Music	2
THMU-323 Computer Applications in Music	2



Students learn to integrate the latest technology into the production of music in the department's computer laboratory coordinated by James Colman.

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in Music with a Keyboard Pedagogy Emphasis

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GMUS-100 Introduction to Music Philosophy	1
GMUS-103 Program and Recital Attendance	0
GSS-100 Foundations of Social Science	5
PEF-199 P.A.C.L.	2
PFMU- Ensemble	3
PLMU- Private lessons	3
THMU-121,122,123 Theory I,II,III	9
THMU-131,132,133 Aural Skills I,II,III	6
History elective	4-5
Total	50-52

Second year:

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
CDMU-260 Introduction to Conducting	3
COM-110 Fundamentals of Speech	5
GMUS-103 Program and Recital Attendance	0
HLMU-231 Introduction to Music Literature	4
KPMU-201,202,203 Keyboard Pedagogy	12
PFMU- Ensemble	3
PLMU- Private lessons	3
THMU-224,225,226 Theory IV,V,VI	9
THMU-234,235 Aural Skills IV,V	2
Physical science elective	5
Total	54

Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
GMUS-103 Program and Recital Attendance	0
HLMU-331,332,333 Music History I,II,III	9
HUM-140 Introduction to the Humanities	5
KPMU-311,312,313 Directed Teaching	3
PFMU- Ensemble	0
PLMU- Private lessons	3
THMU-322 Synthesizer Applications in Music	2
THMU-323 Computer Applications in Music	2
THMU-411 Form and Analysis	3
Biology elective	5
Literature elective	5
Physical education elective	1
Total	46

Fourth year:

GMUS-103 Program and Recital Attendance	0
KPMU-401 Class Piano Pedagogy	1
KPMU-402 Studio Business Practice	1
KPMU-403 Survey of Adv. Pre-College Literature	1
KPMU-411,412,413 Directed Teaching	3
PLMU- Private lessons	3
PLMU-490 Senior Recital	1
THMU-314 Functional Keyboard Skills	3
THMU-413 Orchestration	3
Humanities elective	4-5
Mathematics/science elective	5
Social science elective	4-5
Other electives	7
Total	36-38

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The **music history emphasis** primarily prepares a student for graduate study, but may serve as a foundation to other careers such as music librarian. Music majors with an emphasis in music history must complete the General Education Requirements, the seventy-one hour music core minus the senior recital, and twenty-five hours in music history including:

HLMU-235 American Music	5
HLMU-300 Introduction to Music Historiography	3
HLMU-336 Black American Music	3
HLMU-400 Directed Readings in non-Western Music	3
HLMU-491,492, 493 Senior Seminar I,II,III	6
HUM-300 Trends and Styles in Popular Music	4
PLMU-390 Junior Recital	1



International tours lead to strong friendships, new perspectives, and great memories.

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in Music--Music History Emphasis

First Year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
COM-110 Fundamentals of Speech	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSS-100 Foundations of Social Science	5
GMUS-100 Introduction to Music Philosophy	1
GMUS-103 Program and Recital Attendance	0
PEF-199 P.A.C.L.	2
PFMU- Ensemble	3
PLMU- Private Lessons	3
THMU-121,122,123 Theory I,II,III	9
THMU-131,132,133 Aural Skills I,II,III	6
Total	52

Second Year:

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
CDMU-260 Introduction to Conducting	3
GMUS-103 Program and Recital Attendance	0
HLMU-231 Introduction to Music Literature	4
HLMU-235 American Music	5
HUM-140 Introduction to the Humanities	5
PFMU- Ensemble	3
PLMU- Private Lessons	3
THMU-224,225,226 Theory IV, V,VI	9
THMU-234,235 Aural Skills IV, V	2
Biology elective	5
Total	47

Third Year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
GMUS-103 Program and Recital Attendance	0
HLMU-300 Music Historiography	3
HLMU-331,332,333 Music History I,II,III	9
HLMU-336 Black American Music	3
HLMU-400 Directed Readings in Non-Western Music	3
PFMU- Ensemble	0
PLMU- Private lessons	3
PLMU-390 Junior Recital	1
THMU-314 Functional Keyboard Skills	3
THMU-411 Form and Analysis	3
Physical science elective	5
Humanities elective	5
Total	46

Fourth Year:

GMUS-103 Program and Recital Attendance	0
HLUM-491,492,493 Senior Seminar I,II,III	6
HUM-300 Trends and Styles in Popular Music	4
PFMU- Ensemble	0
PLMU- Private lessons	3
PLMU- Private lessons (second area)	3
THMU-413 Orchestration	3
History elective	4-5
Literature elective	5
Mathematics or science elective	4-5
Physical education elective	5
Social science elective	5
Total	43-44

The **music theory/composition emphasis** prepares the student for a career involving the composition, arranging, and editing of music especially suitable for use in the church. This program also lays the foundation for graduate study in theory/composition. Course requirements for a music major with an emphasis in music theory include completion of the General Education Requirements, the music major core requirements, and twenty-five hours in the emphasis including:

CLMU-186 Voice class	1
EDMU-190 Guitar Methods	2
EDMU-193 High String Methods	2
(or EDMU-194 Low String Methods	2)
EDMU-273 Wind and Percussion Methods	3
PLMU-120 Private Voice	1
PLMU-390 Junior Recital	1
THMU-310 Counterpoint	3
THMU-322 Synthesizer Applications in Music	2
THMU-323 Computer Applications in Music	2
THMU-499 Independent Study in Composition and Arranging	8



The College invites many high calibre musicians to campus each year, like harpist Greg Buchanan pictured here.

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in Music with a Music Theory/Composition Emphasis

First Year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
CLMU-186 Voice Class	1
COM-110 Fundamentals of Speech	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSS-100 Foundations of Social Science	5
GMUS-100 Introduction to Music Philosophy	1
GMUS-103 Program and Recital Attendance	0
PFMU- Ensemble	3
PLMU- Private lessons	3
THMU-121,122,123 Theory I,II,III	9
THMU-131,132,133 Aural Skills I,II,III	6
Physical education elective	1
Total	52

Second Year:

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
CDMU-260 Introduction to Conducting	3
EDMU-193 High String Methods	2
or EDMU-194 Low String Methods	2
GMUS-103 Program and Recital Attendance	0
HLMU-231 Introduction to Music Literature	4
HUM-140 Introduction to Humanities	5
PEF-199 P.A.C.L.	2
PFMU- Ensemble	3
PLMU- Private lessons	1
PLMU-120 Private Voice	1
THMU-224,225,226 Theory IV,V,VI	9
THMU-234,235 Aural Skills IV,V	2
Biology elective	5
History elective	4-5
Total	51-52

Third Year:

BEGE-375 God and History	4
BEGE-376 God and Church	4
EDMU-273 Wind and Percussion Methods	3
GMUS-103 Program and Recital Attendance	0
HLMU-331,332,333 Music Theory I,II,III	9
PFMU- Ensemble	0
PLMU- Private lesson	3
PLMU-390 Junior Recital	1
THMU-310 Counterpoint	3
THMU-314 Functional Keyboard Skills	3
THMU-322 Synthesizer Applications in Music	2
THMU-323 Computer Applications in Music	2
THMU-411 Form & Analysis	3
Literature elective	5
Social science elective	4-5
Total	46-47

Fourth Year:

EDMU-190 Guitar Methods	2
GMUS-103 Program and Recital Attendance	0
PFMU- Ensemble	0
PLMU- Private lessons	3
PLMU- Senior Recital	1
THMU-413 Orchestration	3
THMU-499 Independent Study in Composition and Arranging	8
Humanities elective	4-5
Literature elective	5
Mathematics or science elective	5
Physical science elective	5
Electives	7
Total	43-44

136 Music

The **performance emphasis** prepares students for graduate study and careers in music performance. Music majors with a performance emphasis must complete the General Education Requirements, the music major core requirements, and twenty-five to thirty-one hours in performance including:

- CLMU-218 Diction for Singers (vocal majors) 3
- CLMU-219 Solo Vocal Literature (vocal majors) 3
- EDMU-373 Vocal Pedagogy (vocal majors) 3
(or EDMU-375 Instrumental Pedagogy
(instrumental majors) 3)
- (or KPMU-201,202or203 Keyboard Pedagogy
(keyboard majors) 4)
- PFMU- Ensemble 6
- PFMU-390 Junior Recital 1
- PLMU- Private lessons (additional hours) 12
- PLMU- Private lessons (second area) 3



The Brass Choir, directed by Charles Pagnard, provides opportunities for talented instrumentalists from any major to participate in music performance.

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in Music-- Performance Emphasis

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
COM-110 Fundamentals of Speech	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GMUS-100 Introduction to Music Philosophy	1
GMUS-103 Program and Recital Attendance	0
GSS-100 Foundations of Social Science	5
PFMU- Ensemble	3
PLMU- Private lessons	6
THMU-121,122,123 Theory I,II,III	9
THMU-131,132,133 Aural Skills I,II,III	6
Physical education elective	1
Total	54

Second year:

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
CDMU-260 Introduction to Conducting	3
CLMU-218 Diction for Singers (vocal majors)	3
HLMU-231 Introduction to Music Literature	4
HUM-140 Introduction to the Humanities	5
GMUS-103 Program and Recital Attendance	0
PEF-199 P.A.C.L.	2
PFMU- Ensemble	3
PLMU- Private lessons	6
THMU-224,225,226 Theory IV,V,VI	9
THMU-234,235 Aural Skills IV,V	2
Biological science elective	5
History elective (except vocal majors)	4-5
Physical science elective	5
Total	55-57

Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
CLMU-219 Solo Vocal Literature (vocal majors)	3
EDMU-373 Vocal Pedagogy or	3
(or EDMU-375 Instrumental Pedagogy or	3)
(or KPMU-201 Keyboard Pedagogy	4)
GMUS-103 Program and Recital Attendance	0
HLMU-331,332,333 Music History I,II,III	9
PFMU- Ensemble	3
PLMU- Private lessons	6
PLMU-390 Junior Recital	1
THMU-314 Functional Keyboard Skills	3
THMU-411 Form and Analysis	3
Humanities elective	4-5
Literature elective	5
Social science elective	4-5
Total	49-54

Fourth year:

GMUS-103 Program and Recital Attendance	0
PFMU- Ensemble	3
PLMU- Private lessons	6
PLMU- Private lessons (second area)	3
PLMU-490 Recital	1
THMU-413 Orchestration	3
History elective (vocal majors)	4-5
Math or science elective	5
Electives	29
Total	55-60

Music Education Major

The **music education major** with its special music certificate prepares students to teach vocal, instrumental, or general music in grades K-12 in public and Christian schools. Upon completion of the requirements of this curriculum, students are awarded the bachelor of music education degree. Two tracks, choral and instrumental, are available.

Course requirements for the **music education--choral track** involve completion of General Education Requirements plus one hundred and twenty-eight quarter hours including:

CDMU-260 Introduction to Conducting	3
CDMU-363 Methods and Repertoire	3
CLMU-218 Diction for Singers	3
(or CLMU-219 Solo Vocal Literature	3)
EDMU-190 Guitar Methods	2
EDMU-273 Wind and Percussion Methods	3
EDMU-371 Music for the Elementary Teacher	4
EDMU-372 Music for the Secondary Teacher	4
EDMU-373 Vocal Pedagogy	3
EDMU-374 Music for the Middle School	2

EDUC-100 Introduction to Education	2
EDUC-101 Field Experience	2
EDUC-102 Education of Exceptional Children	2
EDUC-270 Audio Visual Methods	1
EDUC-201 Preliminary Student Involvement	0
EDUC-300 Learner and the Learning Process	4
EDUC-302 Teaching Thinking Skills	2
*EDUC-305 Junior Practicum	5
*EDUC-321 Philosophy of Education	3
*EDUC-350 Reading in the Content Areas	3
*EDUC-450 Supervised Teaching and Seminar	15
GMUS-100 Introduction to Music Philosophy	1
GMUS-103 Recital and Prog. Attendance (each qtr.)	0
HLMU-231 Introduction to Music Literature	4
HLMU-331,332,333 Music History I,II,III	9
PFMU- Ensemble Performance	6
PLMU- Private lessons	12
PLMU-490 Senior Recital	1
THMU-121,122,123 Theory I,II,III	9
THMU-131,132,133 Aural Skills I,II,III	6
THMU-224,225,226 Theory IV, V, VI	9
THMU-234,235 Aural Skills IV, V	2
THMU-314 Functional Keyboard Skills	3

*Prerequisite is admission to the teacher education program.

A complete description of the General Education Requirements is found on page 31.

Four-Year Curriculum for a Major in Music Education --Choral Track

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
COM-110 Fundamentals of Speech	5
ENG-110 Composition I	5
ENG-140 Composition II	5
GMUS-100 Introduction to Music Philosophy	1
GMUS-103 Program and Recital Attendance	0
HUM-140 Introduction to the Humanities	5
PEF-199 P.A.C.L.	2
PFMU- Ensemble	3
PLMU-Private Lessons	3
THMU-121,122,123 Theory I,II,III	9
THMU-131,132,133 Aural Skills I,II,III	6
Total	52

Second year:

BEGE-273 Old Testament Survey	4
BEGE-374 New Testament Survey	4
CDMU-260 Introduction to Conducting	3
CDMU-363 Choral Methods and Repertoire	3
CLMU-218 Diction for Singers	3
(or CLMU-219 Solo Vocal Literature	3)
EDMU-190 Guitar Methods	2
EDUC-201 Preliminary Student Involvement	0
EDUC-300 Learner and the Learning Process	4
GMUS-103 Program and Recital Attendance	0
GSS-100 Foundations of Social Science	5
HLMU-231 Introduction to Music Literature	4
PFMU- Ensemble	3
PLMU- Private lesson	3
THMU-224,225,226 Theory IV, V, VI	9
THMU-234,235 Aural Skills IV, V	2
Mathematics/science elective	5
Total	54

Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
EDMU-273 Wind and Percussion Methods	3
EDMU-371 Music for Elementary Teachers	4
EDMU-372 Music for Secondary Teachers	4
EDUC-100 Introduction to Education	2
EDUC-101 Field Experience	2
EDUC-102 Education of Exceptional Children	2
EDUC-302 Teaching Thinking Skills	2
EDUC-305 Junior Practicum	5
EDUC-350 Reading in the Content Area	3
GMUS-103 Program and Recital Attendance	0
HLMU-331,332,333 Music History I,II,III	9
PFMU- Ensemble	0
PLMU- Private lessons	3
History elective	4-5
Humanities elective	4-5
Total	55-57

Fourth year:

GMUS-103 Program and Recital Attendance	0
EDMU-373 Vocal Pedagogy	3
EDMU-374 Music in the Middle School	2
EDUC-270 Audio Visual Methods	1
EDUC-321 Philosophy of Education	3
EDUC-450 Student Teaching	15
PFMU- Ensemble	0
PLMU- Private lesson	3
PLMU-490 Recital	1
THMU-314 Functional Keyboard Skills	3
Biological science elective	5
Literature elective	5
Physical education elective	1
Physical science elective	5
Social science elective	4-5
Total	51-52

138 Music

Course requirements for the **music education--instrumental track** involve completion of the General Education Requirements plus one hundred and thirty-seven quarter hours including:

CDMU-260 Introduction to Conducting	3
CDMU-362 Instrumental Conducting	3
CLMU-186 Voice Class	1
CLMU-286 Intermediate Voice Class	2
EDMU-371 Music for the Elementary Teacher	4
EDMU-372 Music for the Secondary Teacher	4
EDMU-374 Music for the Middle School	2
EDMU-377 Band Administration	2
EDMU-378 Marching Band Practicum	1
EDMU-379 Instrument Repair	1
Instrumental methods (selected from)	10
EDMU-187 or 188 High or Low Brass Methods	2
EDMU-191 Woodwind Methods (Single Reed)	2
EDMU-192 Woodwind Methods (Double Reed)	2
EDMU-193 or 194 High or Low String Methods	2
EDMU-195 Percussion Methods	2
EDUC-100 Introduction to Education	2
EDUC-101 Field Experience	2
EDUC-102 Education of Exceptional Children	2

EDUC-270 Audio Visual Methods	1
EDUC-201 Preliminary Student Involvement	0
EDUC-300 Learner and the Learning Process	4
EDUC-302 Teaching Thinking Skills	2
*EDUC-305 Junior Practicum	5
*EDUC-321 Philosophy of Education	3
*EDUC-350 Reading in the Content Areas	3
*EDUC-450 Supervised Teaching and Seminar	15
GMUS-100 Introduction to Music Philosophy	1
GMUS-103 Recital and Prog. Attendance (each qtr.)	0
HLMU-231 Introduction to Music Literature	4
HLMU-331,332,333 Music History I,II,III	9
PFMU- Ensemble Performance	6
PLMU- Private lessons	12
PLMU-490 Senior Recital	1
THMU-121,122,123 Theory I,II,III	9
THMU-131,132,133 Aural Skills I,II,III	6
THMU-224,225,226 Theory IV, V, VI	9
THMU-234,235 Aural Skills IV, V	2
THMU-314 Functional Keyboard Skills	3
THMU-413 Orchestration	3

*Prerequisite: admission to teacher education program.

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in Music Education--Instrumental Track

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
COM-110 Fundamentals of Speech	5
ENG-110 Composition I	5
ENG-140 Composition II	5
GMUS-103 Program and Recital Attendance	0
GMUS-100 Introduction to Music Philosophy	1
HUM-140 Introduction to the Humanities	5
PEF-199 P.A.C.L.	2
PFMU- Ensemble	3
PLMU- Private lessons	3
THMU-121,122,123 Theory I,II,III	9
THMU-131,132,133 Aural Skills I,II,III	6
Physical education elective	1
Total	53

Second year:

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
CDMU-260 Introduction to Conducting	3
CDMU-362 Instrumental Conducting	3
EDMU-187 High Brass Methods	2
EDMU-191 Woodwind Methods (single reed)	2
EDMU-195 Percussion Methods	2
EDUC-200 Audio Visual Methods	1
EDUC-201 Preliminary Student Involvement	0
EDUC-300 Learner and the Learning Process	4
GMUS-103 Program and Recital Attendance	0
GSS-100 Foundations of Social Science	5
HLMU-231 Introduction to Music Literature	4
PFMU- Ensemble	3
PLMU- Private lessons	3
THMU-224,225,226 Theory IV, V, VI	9
THMU-234,235 Aural Skills IV, V	2
History elective	4-5
Total	55-56

Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
EDMU-188 Low Brass Methods	2
EDMU-192 Woodwind Methods (double reed)	2
EDMU-371 Music for Elementary Teachers	4
EDMU-372 Music for the Secondary Teacher	4
EDMU-374 Music in the Middle School	2
EDUC-100 Introduction to Education	2
EDUC-101 Field Experience	2
EDUC-102 Education of Exceptional Children	2
EDUC-302 Teaching Thinking Skills	2
EDUC-305 Junior Practicum	5
EDUC-350 Reading in the Content Area	3
GMUS-103 Program and Recital Attendance	0
HLMU-331,332,333 Music History I,II,III	9
PFMU- Ensemble	0
PLMU- Private lessons	3
THMU-314 Functional Keyboard Skills	3
Humanities elective	4-5
Total	57-58

Fourth year:

CLMU-186 Voice Class	1
CLMU-286 Intermediate Voice Class	2
EDMU-377 Band Administration	2
EDMU-378 Marching Band Practicum	1
EDMU-379 Instrument Repair	1
EDUC-321 Philosophy of Education	3
EDUC-450 Student Teaching	15
GMUS-103 Program and Recital Attendance	0
PFMU- Ensemble	0
PLMU- Private lessons	3
PLMU-490 Senior Recital	1
THMU-413 Orchestration	3
Biology elective	5
Literature elective	5
Mathematics elective	5
Physical science elective	5
Social science elective	4-5
Total	56-57

Secondary Music Education Major

The **secondary music education major** prepares students to teach music in grades 7-12 in public and Christian schools. Two tracks, choral and instrumental, are available.

Course requirements for the secondary **music education major--choral track** involve completion of General Education Requirements plus one hundred and twenty quarter hours including:

CDMU-260 Introduction to Conducting	3
CDMU-363 Choral Methods and Repertoire	3
CLMU-218 Diction for Singers	3
(or CLMU-219 Solo Vocal Literature	3)
EDMU-273 Wind and Percussion Methods	3
EDMU-372 Music for Secondary Teachers	4
EDMU-373 Vocal Pedagogy	3
EDUC-100 Introduction to Education	2
EDUC-101 Field Experience	2
EDUC-102 Education of Exceptional Children	2
EDUC-270 Audio Visual Methods	1

EDUC-201 Preliminary Student Involvement	0
EDUC-300 Learner and the Learning Process	4
EDUC-302 Teaching Thinking Skills	2
*EDUC-305 Junior Practicum	5
*EDUC-321 Philosophy of Education	3
*EDUC-350 Reading in the Content Areas	3
*EDUC-450 Supervised Stu. Teaching and Seminar	15
GMUS-100 Introduction to Music Philosophy	1
GMUS-103 Program and Recital Attendance (ea. qtr.) ..	0
HLMU-231 Introduction to Music Literature	4
HLMU-331,332,333 Music History I,II,III	9
PFMU- Ensemble Performance	6
PLMU- Private lessons	12
PLMU-490 Senior Recital	1
THMU-121,122,123 Theory I,II,III	9
THMU-131,132,133 Aural Skills I,II,III	6
THMU-224,225,226 Theory IV, V, VI	9
THMU-234,235 Aural Skills IV, V	2
THMU-314 Functional Keyboard Skills	3

*Prerequisite: admission to teacher education program.

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in Secondary Music Education--Choral Track

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
COM-110 Fundamentals of Speech	5
ENG-110 Composition I	5
ENG-140 Composition II	5
GMUS-100 Introduction to Music Philosophy	1
GMUS-103 Program and Recital Attendance	0
HUM-140 Introduction to the Humanities	5
PEF-199 P.A.C.L	2
PFMU- Ensemble	3
PLMU- Private Lessons	3
THMU-121,122,123 Theory I,II,III	9
THMU-131,132,133 Aural Skills I,II,III	6
Physical education elective	1
Total	53

Second year:

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
CDMU-260 Introduction to Conducting I	3
CDMU-363 Choral Methods and Repertoire	3
CLMU-218 Diction for Singers	3
(or CLMU-219 Solo Vocal Literature	3)
EDUC-201 Preliminary Student Involvement	0
GMUS-103 Program and Recital Attendance	0
GSS-100 Foundations of Social Science	5
HLMU-231 Introduction to Music Literature	4
PFMU- Ensemble	3
PLMU- Private lessons	3
THMU-224,225,226 Theory IV, V, VI	9
THMU-234,235 Aural Skills IV, V	2
History elective	4-5
Math or science elective	5
Total	52-53

Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
EDMU-273 Wind and Percussion Methods	3
EDMU-372 Music for the Secondary Teacher	4
EDUC-100 Introduction to Education	2
EDUC-101 Field Experience	2
EDUC-102 Education of Exceptional Children	2
EDUC-300 Learner and the Learning Process	4
EDUC-302 Teaching Thinking Skills	2
EDUC-305 Junior Practicum	5
EDUC-321 Philosophy of Education	3
EDUC-350 Reading in the Content Area	3
GMUS-103 Program and Recital Attendance	0
HLMU-331,332,333 Music History I,II,III	9
PLMU- Private lessons	3
PFMU- Ensemble	0
Humanities elective	4-5
Total	54-55

Fourth year:

EDMU-373 Vocal Pedagogy	3
EDUC-270 Audio Visual Methods	1
EDUC-450 Student Teaching	15
GMUS-103 Program and Recital Attendance	0
PFMU- Ensemble	0
PLMU- Private lessons	3
PLMU-490 Senior Recital	1
THMU-314 Functional Keyboard Skills	3
Biology elective	5
Literature elective	5
Physical science elective	4-5
Social science elective	4
Total	44-45

140 Music

Course requirements for the **secondary music education major--instrumental track** involve completion of General Education Requirements plus one hundred and twenty-eight quarter hours in music education including:

CDMU-260 Introduction to Conducting	3
CDMU-362 Instrumental Conducting	3
CLMU-186 Voice Class	1
CLMU-286 Intermediate Voice Class	2
Instrumental methods (selected from)	10
EDMU-187 High Brass Methods	2
EDMU-188 Low Brass Methods	2
EDMU-191 Woodwind Methods (single reed)	2
EDMU-192 Woodwind Methods (double reed)	2
EDMU-193 High String Methods	2
EDMU-194 Low String Methods	2
EDMU-195 Percussion Methods	2
EDMU-372 Music for Secondary Teachers	4
EDMU-377 Band Administration	2
EDMU-378 Marching Band Practicum	1
EDMU-379 Instrument Repair	1
EDUC-100 Introduction to Education	2
EDUC-101 Field Experience	2
EDUC-102 Education of Exceptional Children	2

EDUC-201 Preliminary Student Involvement	0
EDUC-270 Audio Visual Methods	1
EDUC-300 Learner and the Learning Process	4
EDUC-302 Teaching Thinking Skills	2
*EDUC-305 Junior Practicum	5
*EDUC-321 Philosophy of Education	3
*EDUC-350 Reading in the Content Area	3
*EDUC-450 Supervised Teaching and Seminar	15
GMUS-100 Introduction to Music Philosophy	1
GMUS-103 Recital and Prog. Attendance (each qtr.)	0
HLMU-231 Introduction to Music Literature	4
HLMU-331,332,333 Music History I,II,III	9
PFMU- Ensemble Performance	6
PLMU- Private lessons	12
PLMU-490 Senior Recital	1
THMU-121,122,123 Theory I,II,III	9
THMU-131,132,133 Aural Skills I,II,III	6
THMU-224,225,226 Theory IV,V,VI	9
THMU-234,235 Aural Skills IV,V	2
THMU-314 Functional Keyboard Skills	3

*Prerequisite: admission to teacher education program

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in Secondary Music Education--Instrumental Track

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
COM-110 Fundamentals of Speech	5
ENG-110 Composition I	5
ENG-140 Composition II	5
GMUS-100 Introduction to Music Philosophy	1
GMUS-103 Program and Recital Attendance	0
HUM-140 Introduction to the Humanities	5
PEF-199 P.A.C.L.	2
PFMU- Ensemble	3
PLMU- Private lessons	3
THMU-121,122,123 Theory I,II,III	9
THMU-131,132,133 Aural Skills I,II,III	6
Physical education elective	1
Total	53

Second year:

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
CDMU-260 Introduction to Conducting	3
CDMU-362 Instrumental Conducting	3
EDMU-187 High Brass Methods	2
EDMU-191 Woodwind Methods (single reed)	2
EDMU-195 Percussion Methods	2
EDUC-201 Preliminary Student Involvement	0
EDUC-270 Audio Visual Methods	1
EDUC-300 Learner and the Learning Process	4
GMUS-103 Program and Recital Attendance	0
GSS-100 Foundations of Social Science	5
HLMU-231 Introduction to Music Literature	4
PFMU- Ensemble	3
PLMU- Private lessons	3
THMU-224,225,226 Theory IV,V,VI	9
THMU-234,235 Aural Skills IV,V	2
History elective	4-5
Total	55-56

Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
EDMU-188 Low Brass Methods	2
EDMU-192 Woodwind Methods (double reed)	2
EDMU-372 Music for Secondary Teachers	4
EDUC-100 Introduction to Education	2
EDUC-101 Field Experience	2
EDUC-102 Education of Exceptional Children	2
EDUC-302 Teaching Thinking Skills	2
EDUC-305 Junior Practicum	5
EDUC-350 Reading in the Content Area	3
GMUS-103 Program Recital Attendance	0
HLMU-331,332,333 Music History I,II,III	9
PFMU- Ensemble	0
PLMU- Private lessons	3
Humanities elective	4-5
Mathematics or science elective	5
Total	53-54

Fourth year:

CLMU-186 Voice Class	1
CLMU-286 Intermediate Voice Class	2
EDMU-377 Band Administration	2
EDMU-378 Marching Band Practicum	1
EDMU-379 Instrumental Repair	1
EDUC-321 Philosophy of Education	3
EDUC-450 Student Teaching	15
GMUS-103 Program and Recital Attendance	0
PFMU- Ensemble	0
PLMU- Private lessons	3
PLMU-490 Recital	1
THMU-314 Functional Keyboard Skills	3
Biology elective	5
Literature elective	5
Physical science elective	5
Social science elective	4-5
Total	51-52

Minors

The **church music minor** provides students interested in working as church musicians with the basic tools needed to function in the field. Students from other disciplines who desire a minor in church music may begin the church music course sequence in either the sophomore or junior year.

Course requirements involve twenty-four quarter hours including:

CDMU-260 Introduction to Conducting	3
CHMU-200 The Christian at Worship	2
CHMU-205 Audio Resources for the Church	2
CHMU-203 Instrumental Ensembles in the Church	2
CHMU-250 Hymnology	3
CHMU-253 Song Leading	2
CHMU-350 Plan and Direct Church Music Program	3
CHMU-353 Mater. and Meth. for Child. and Youth	3
CLMU-181 Piano Class	1
CLMU-186 Voice Class	1
CLMU-286 Intermediate Voice Class	2

The **music minor** allows students with interests and abilities in music to build upon this background through formal music instruction.

Course requirements involve twenty-seven quarter hours including:

CDMU-260 Introduction to Conducting	3
GMUS-103 Recital and Program Attendance	0
HLMU-231 Introduction to Music Literature	4
PFMU- Ensemble	2
PFMU- Private lessons	3
THMU-121,122,123 Theory I,II,III	9
THMU-131,132,133 Aural Skills I,II,III	6

Multimedia Technologies

The **multimedia technologies major** prepares students for careers in the recording industry and its related fields. The exploration of computerized audio, video, and MIDI technology in the program enables students to become both skilled technicians and effective communicators by utilizing contemporary electronic media. The program involves two concentrations, music and radio\television. Multimedia technologies majors who choose the music concentration will be advised by music department faculty.

A completed description of the program is outlined in the communication arts section of the catalog.

Course Descriptions

Art

ART-110 Introduction to Art--A 4 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-121 Drawing I--W 4 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.

ART-122 Drawing II--Sp 4 hours

Further exploration in representing form and space with particular attention to figure and portrait drawing. Emphasis on personal interpretation and media experimentation. Prerequisite: ART-121 Drawing I.

ART-221 Design I--W 4 hours

An exploration of the visual elements and concepts of design utilizing a variety of media. Prerequisite: ART-121 Drawing I

ART-222 Design II--Sp 4 hours

Theory and application of compositional elements and principles of design and visual organization. Manipulation of two and three-dimensional forms to explore their expressive and structural possibilities.

Humanities

HUM-140 Introduction to the Humanities--A,W,Sp,Su 5 hours

A historical study of the relationship of music, art and literature to the dominant cultural, religious and philosophical trends and their relationship to Christian theism.

HUM-243 Music Appreciation--W 4 hours

A historical/stylistic survey of Western music viewed from a Christian theistic perspective. Satisfies the HUM-140 Introduction to Humanities requirement if combined with qualifying transfer work in art appreciation. May not be combined with HUM-242 to substitute for HUM-140. (even years)

HUM-300 American Popular Music--Sp 4 hours

Designed to help the student gain an appreciation and understanding of American popular music, to impart historical perspective on styles and trends, to clarify some of the impact popular music has on society, to increase general knowledge of and interest in music, and to develop a basis for Christian discernment as it relates to participation in American popular music. This course does not satisfy the Introduction to the Humanities requirement.

Church Music

CHMU-200 The Christian At Worship--Sp 2 hours

A study of worship as recorded in the Old and New Testament with primary emphasis upon individual and corporate worship in the contemporary Church. Enrollment is open to students from all departments of the College. (even years)

CHMU-203 Instrumental Ensembles in the Church--A 2 hours

In a seminar setting the student is given an introduction to the importance of instrumental music in the church. The study of the development of small wind and brass ensembles, large ensemble, repertoire, and the function of ensembles in worship and Christian education. (odd years)

CHMU-204 Audio Resources for the Church--W 2 hours

An overview of audio in relation to sound reinforcement and its use in the local church. Topics for study include: the basic sound chain, the mixing process, tape accompaniments, audio problems and trouble shooting. The course includes hands-on experience.

CHMU-209 Introduction to Hymn Playing--W 1 hour

Group instruction in essential hymn playing and accompanying skills including congregational-style improvisation, accompanying from the hymnal, sight reading, and transposition.

142 Music

CHMU-250 Hymnology--W 3 hours

A historical survey of Christian hymnology; consideration of criteria for judging texts and tunes with an emphasis upon their practical use in the worship service. (even years)

CHMU-253 Song Leading--Sp 2 hours

Presents an evaluation of Protestant church music, duties of and requirements for a song leader and experience in hymn conducting. Recommended for all future pastors and church workers. (odd years)

CHMU-350 Planning and Directing the Church Music Ministry--W 3 hours

An introduction to the methods and materials necessary for the effective planning and leading of all musical areas of church life. Recommended for future pastors and church workers. (odd years)

CHMU-353 Music Methods and Material for Children and Youth--Sp 3 hours

Presents a rationale and plan for the establishment of the graded music program in the local church, particularly the graded choir program with attention given to methods and materials used in the organization and maintenance of these groups. Includes field experience. Prerequisite: CHMU-350 Planning and Directing the Church Music Ministry. (odd years)

CHMU-410 Church Music Practicum--A,W,Sp,Su 2 hours

Two weeks in a local church gaining experience in the responsibilities of a Minister of Music under supervision of the Music Department faculty and/or the local Minister of Music.

CHMU-499 Independent Study in Church Music--A,W,Sp,Su 1-4 hours

Independent and intensive study in a particular area of the church music ministry for students who demonstrate special interest and ability.

Conducting

CDMU-260 Introduction to Conducting--A 3 hours

The basic technique of the conductor's art: score reading, conducting patterns, interpreting, cueing, rehearsal procedures, and stylistic conceptualization. Prerequisite: THMU-121 Theory I or permission of instructor.

CDMU-362 Instrumental Conducting--W 3 hours

This course is 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-260 Introduction to Conducting.

CDMU-363 Choral Methods and Repertoire--Sp 3 hours

Continued development of conducting skills emphasizing score reading, diagnostic listening and the refinement of choral intonation, resonance, diction, blend and balance. Rehearsal procedures will be discussed and practiced with music department performing groups. Stylistic features will be discussed through the examination of selected repertoire appropriate for school and church ensembles. Prerequisite: CDMU-260 Introduction to Conducting.

CDMU-499 Independent Study in Conducting--A,W,Sp 1-4 hours

Independent and intensive study in a particular area of conducting for individual students who demonstrate special interests and ability. Prerequisite: CDMU-362 or 363 or equivalent.

General Music

GMUS-100 Introduction to Music Philosophy--A 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-103 Program and Recital Attendance--A,W,Sp 0 hours

Music majors and minors are required to attend a prescribed number of artist series programs, general recitals, senior recitals, and faculty recitals each quarter. The major must enroll each quarter until graduation. The minor is required to enroll for three consecutive quarters.

GMUS-400 Music Seminar--A,W,Sp 2-5 hours

For music majors. Some typical topics: 16th century counterpoint, folk music, intermediate composition practices. Prerequisites: Permission of the music department.

History and Literature

HLMU-231 Introduction to Music Literature--A 4 hours

Study of music by genre and chronology. Focuses upon art traditions in music. Students become familiar with a wide variety of music literature and learn to listen analytically. Serves as the introductory music history course for sophomore music majors.

HLMU-235 American Music--W 5 hours

A survey of musical development in America from early colonial times to the present. Attention will be given to attempts to create an individual "American" musical style. Emphasis also will be given to the principle stylistic trends and the predominant musical attitudes in America since World War I.

HLMU-300 Introduction to Music Historiography--Su 3 hours

An introduction to the philosophy of music history, the history of historical writing, bibliography, and methods of research. Prerequisite: HLMU-231 Introduction to Music Literature. (odd years)

HLMU-331 Music History I-Medieval and Renaissance--A 3 hours

A study of western civilization music traced from its primitive sources with special attention given to medieval and Renaissance music.

HLMU-332 Music History II-Baroque and Classical--W 3 hours

A study of the music of western civilization traced from 1580 through the early works of Beethoven with special attention given to the major musical forms in vocal and instrumental music as demonstrated in the works of Monteverdi, Schuetz, Lully, Corelli, Vivaldi, Rameau, J.S. Bach, Handel, Gluck, Haydn, and Mozart.

HLMU-333 Music History III-Romantic and Modern--Sp 3 hours

A study of the music of western civilization traced from the time of Beethoven to the present.

HLMU-336 Black American Music--Sp 3 hours

A history of the musical activities of black Americans in the United States. Consideration will be given to the social, political, and economic forces in the development of Negro Music. Prerequisites: HLMU-231 Introduction to Music Literature and HLMU-235 American Music.

HLMU-400 Directed Reading in Non-Western Music--Su 3 hours

Selected reading designed to strengthen the student with a music history emphasis in the development of non-Western music through the use of primary and secondary materials. Prerequisite: HLMU-231 Introduction to Music Literature and HLMU-331,332,333 Music History I,II,III.

HLMU-491,492,493 Senior Seminar I,II,III--A,W,Sp 2 hours each

Each music history emphasis student will prepare a research paper using a topic approved by the student's advisor and the seminar instructor. The paper will be presented and defended before members of the music faculty, music history students, and other interested music majors. Prerequisite: Senior status and completion of other requirements in the music history emphasis.

HLMU-499 Independent Study in Music History--A,W,Sp,Su 1-4 hours

Independent and intensive study in a particular area of music history for individual students who demonstrate special interests and ability. Prerequisite: HLMU-331,332,333 Music History I,II,III.

Keyboard Pedagogy

KPMU-201 Keyboard Pedagogy I--A 4 hours

Study of techniques and literature for the teaching of beginning to intermediate piano students both in private and class settings. Includes study of graded teaching materials and participation in a supervised teaching setting. Prerequisites: THMU-122,123 Theory II, III, THMU-132,133 Aural Skills II,III.

KPMU-202 Keyboard Pedagogy II--W 4 hours

Discussion of pedagogical problems involving intermediate students; evaluations of piano literature and investigation of specific aspects of piano pedagogy through readings and discussion. Prerequisite: KPMU-201 Keyboard Pedagogy I.

KPMU-203 Keyboard Pedagogy III--Sp 4 hours

A study of technique and literature for the very young beginner and the older beginning student. Planning for musical and technical development, teaching strategies for individual and group lessons, and preparing students for festivals and competition. Prerequisite: KPMU-202 Keyboard Pedagogy II.

KPMU-311,312,313 Directed Teaching--A,W,Sp 1 hour each

Supervised teaching experience in a private or class format with beginning to intermediate level piano students. Prerequisite: KPMU-201,202,203 Keyboard Pedagogy Series.

KPMU-401 Class Piano Pedagogy--Sp 1 hour

Pedagogical methods and techniques using electronic studio in-class teaching. Prerequisites: KPMU-201,202,203 Keyboard Pedagogy Series.

KPMU-402 Studio Business Practice--W 1 hour

Developing the piano studio as a small business. Aspects of advertising, building and keeping clientele, taxes, record keeping, and using a microcomputer as an accounting and teaching tool. Prerequisite: KPMU-201,202,203 Keyboard Pedagogy Series.

KPMU-403 Survey of Advanced Pre-College Literature--A 1 hour

Survey of representative Baroque through 20th century literature for the advanced pre-college pianist. Teaching historically stylistic playing; selection of audition and contest literature. Prerequisite: KPMU-201,202,203 Keyboard Pedagogy Series.

KPMU-411,412,413 Directed Teaching--A,W,Sp 1 hour each

Supervised teaching experience in a private or class format with beginning to intermediate level piano students. Prerequisite: KPMU-201,202,203 Keyboard Pedagogy I,II,III.

Music Education

EDMU-187 High Brass Methods--A 2 hours

Historical background, pedagogical and performance techniques of trumpet and French horn. (Fee: \$15) (odd years)

EDMU-188 Low Brass Methods--A 2 hours

Historical background, pedagogical and performance techniques of trombone, baritone, and tuba. (Fee: \$15) (even years)

EDMU-190 Guitar Methods--W 2 hours

A study of the historical background, 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: \$15)

EDMU-191 Woodwind Methods (Single Reed)--W 2 hours

Historical background, pedagogical and performance techniques of clarinet, saxophone, and flute. (Fee: \$15) (odd years)

EDMU-192 Woodwind Methods (Double Reed)--W 2 hours

Historical background, pedagogical and performance techniques oboe and bassoon. (Fee: \$15) (even years)

EDMU-193 High String Methods--Sp 2 hours

Concentration on violin and viola performance techniques including traditional and Suzuki methods. (Fee: \$15) (even years)

EDMU-194 Low String Methods--Sp 2 hours

Concentration on the methods and techniques used in playing the cello and string bass. (Fee: \$15) (odd years)

EDMU-195 Percussion Methods--A 2 hours

Concentration in snare drum techniques and an introduction to tympani and tuned percussion methods. (Fee: \$15) (odd years)

EDMU-273 Wind and Percussion Methods--Sp 3 hours

An overview of the history, pedagogy, and performance techniques of all band instruments. Required for the vocal major pursuing secondary music education or the B.M.E. degree; open to others by permission of the instructor. (Fee: \$15) (even years)

EDMU-370 Music for Elementary Teachers--A,W,Sp 2 hours

Music literature and teaching aids for children, including basic music theory, development of skills on keyboard and classroom instruments and voice; music in the curriculum; teaching musical concepts. Prerequisite: Elementary education major or permission of the instructor. (Fee: \$15)

EDMU-371 Music for Elementary Teachers--A 4 hours

For music majors only. Music literature and teaching aids for children, including basic music theory, development of skills on keyboard and classroom instruments and voice; music in the curriculum; teaching music concepts. Field and clinical experiences are a requirement of this course. Prerequisite: Admission to the teacher education program or permission of the instructor. (Fee: \$15) (even years)

EDMU-372 Music for Secondary Teachers--W 4 hours

The history of and basis for music in the secondary curriculum; administration of the music program; methods of teaching music in groups; sources of materials for instruction. Field and clinical experience are a requirement of this course. (Fee: \$15)

EDMU-373 Vocal Pedagogy--A 3 hours

Philosophy, objectives, and techniques of offering vocal instruction at all levels with emphasis on vocal production, pedagogical approaches, repertoire, and program building. Prerequisite: CLMU-186 Voice Class, CLMU-286 Intermediate Voice Class, or completion of sophomore vocal review. (odd years)

EDMU-374 Music in the Middle School--Sp 2 hours

A study of materials, methods of procedure, supervision, and psychological aspects of teaching music in the middle school. Field and clinical experience are a requirement of this course. (Fee: \$15) (odd years)

EDMU-375 Instrumental Pedagogy--W 4 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 100 and 200 levels. (odd years)

EDMU-377 Band Administration--A 2 hours

A course designed to present the philosophy, learning processes, and organizational problems associated with beginning, intermediate and advanced bands. Corequisites: EDMU-378 Marching Band Practicum, EDMU-379 Instrument Repair. (even years)

EDMU-378 Marching Band Practicum--A 1 hour

A field experience designed to provide the instrumental music education major with an intensive practicum in marching band organization, repertoire, routines, and formation-charting, including a minimum of one week band camp experience. To be taken concurrently with EDMU-377,379. (Fee: \$15) (even years)

EDMU-379 Instrument Repair--A 1 hour

A laboratory session in the basic repair of band instruments. The course would involve instrument repair specialists and hands-on experience. To be taken concurrently with EDMU-377, 378. (Fee: \$15) (even years)

EDMU-499 Independent Study in Music Education--A,W,Sp,Su 1-4 hours

Independent and intensive study in a particular area of music education for individual music education majors who demonstrate special interests and ability.

Music Theory

THMU-121 Theory I--A 3 hours

An introduction to the basic materials and concepts of music. Fundamental harmonic progression and introduction to the piano keyboard. Elementary ear training and dictation. Competency equivalency required of all music majors, minors, and elementary education majors. Open to all students. (Fee: \$15)

144 Music

THMU-122 Theory II--W 3 hours

Study of fundamental harmonies and tone relations used in musical composition: elementary written and keyboard harmony, melody writing and analysis. Prerequisite: THMU-121 Theory I or passing grade on placement examinations. (Fee: \$15)

THMU-123 Theory III--Sp 3 hours

A study of the principles of diatonic harmony, including two-, three-, and four-part writing, analysis, keyboard harmony, and creative work. Prerequisite: THMU-122 Theory II. (Fee: \$15)

THMU-131 Aural Skills I--A 2 hours

Basic technique of dictation, sight singing, and rhythmic reading. To be taken concurrently with THMU-121 Theory I. Open to all students. (Fee: \$15)

THMU-132 Aural Skills II--W 2 hours

Singing and writing of major and minor scales, intervals, triads, tonal and rhythmic groups, tonal melodies and canons. Corequisite: THMU-122 Theory II. Prerequisite: THMU-131 Aural Skills I or passing grade on placement examinations. (Fee: \$15)

THMU-133 Aural Skills III--Sp 2 hours

Singing and writing of chromatic scales, tonal and rhythmic groups, more difficult tonal melodies, and two-part work. Corequisite: THMU-123 Theory III. Prerequisite: THMU-132 Aural Skills II. (Fee: \$15)

THMU-224 Theory IV--A 3 hours

A comprehensive review of Theory I, II, and III. Part writing, analysis, and creative work. Prerequisite: THMU-123 Theory III.

THMU-225 Theory V--W 3 hours

Critical study and analysis of the chromatic harmony and formal structure of 18th and 19th century music. Creative work in traditional compositional forms. Prerequisite: THMU-224 Theory IV.

THMU-226 Theory VI--Sp 3 hours

A survey of contrapuntal techniques and analytical study of 20th century compositional techniques, including impressionistic, serial, neo-classical, and electronic practices; creative work in contemporary styles. Prerequisite: THMU-225 Theory V. (Fee: \$20)

THMU-234 Aural Skills IV--A 1 hour

Melodic, harmonic, and rhythmic dictation, singing and error detection. Melodic structural devices, chord identification, syncopation and sub triplets. To be taken with THMU-224 Theory IV. Prerequisite: THMU-133 Aural Skills III.

THMU-235 Aural Skills V--W 1 hour

Melodic, harmonic and rhythmic dictation, singing and error detection. Modulation identification; phrase, key, cadence and harmonic relationships; super triplets, and more difficult rhythms. To be taken concurrently with THMU-225 Theory V. Prerequisite: THMU-234 Aural Skills IV.

THMU-310 Counterpoint--Sp 3 hours

A survey of polyphonic music of the 18th century including analysis and experimental writing of species counterpoint, canon, two-part inventions, fugal expositions, and trio sonata movements. Prerequisite: THMU-225 Theory V.

THMU-314 Functional Keyboard Skills--A 3 hours

The development of 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-322 Synthesizer Applications in Music--W 2 hours

An in-depth examination of synthesizer technology in a lab setting including synthesizer programming and performance techniques, implementation of MIDI standards into a music workstation, and multi-track recording of electronic instruments.

THMU-323 Computer Applications in Music--Sp 2 hours

Evaluation of computer technology with specific applications to an electronic music studio including use of computers with MIDI, sequencing, music notation, and performance. Prerequisite: THMU-322 Synthesizer Applications in Music.

THMU-324 MIDI Clinic--Sp 1 hour

This course is designed to move students past the basics of using MIDI into a hands-on, individualized clinic. Each student will work on MIDI projects of particular interest to him/her with specific goals outlined by the instructor. Prerequisites: THMU-322 Synthesizer Applications in Music, THMU-323 Computer Applications in Music.

THMU-411 Form and Analysis--W 3 hours

A study of the structure of music approached through analysis of representative works. Prerequisite: THMU-222 Theory VI.

THMU-413 Orchestration--A 3 hours

A course designed to develop skills in scoring music for various instrumental groups. Prerequisite: THMU-226 Theory VI.

THMU-499 Independent Study in Composition and Arranging--A,W,Sp,Su 1-4 hours

Independent and intensive study in a particular area of music theory for individual students who demonstrate special interests and ability. Repeatable up to four credits.

Performance

Private instruction for credit in piano, voice, and orchestral and band instruments is available to all music majors. Students other than music majors will need special approval from the Music Department. Private instruction for credit on any instrument available may be arranged with qualified professional teachers for all students in the program.

Credit in performance lessons is based on a minimum of six hours of practice and one-half hour lesson per week for one hour of credit. An audition is required for initial registration. Continued registration is based upon satisfactory progress as determined each quarter by the instructor. (Fee: \$20)

Private Study

PLMU-100,200,300,400 Organ--A,W,Sp 1-2 hours

PLMU-110,210,310,410 Piano--A,W,Sp 1-2 hours

PLMU-120,220,320,420 Voice--A,W,Sp 1-2 hours

PLMU-130,230,330,430 Trumpet--A,W,Sp 1-2 hours

PLMU-131,231,331,431 Trombone/Baritone Horn--A,W,Sp 1-2 hours

PLMU-132,232,332,432 French Horn--A,W,Sp 1-2 hours

PLMU-133,233,333,433 Tuba--A,W,Sp 1-2 hours

PLMU-140,240,340,440 Clarinet--A,W,Sp 1-2 hours

PLMU-141,241,341,441 Flute--A,W,Sp 1-2 hours

PLMU-142,242,342,442 Saxophone--A,W,Sp 1-2 hours

PLMU-143,243,343,443 Oboe--A,W,Sp 1-2 hours

PLMU-144,244,344,444 Bassoon--A,W,Sp 1-2 hours

PLMU-150,250,350,450 Violin--A,W,Sp 1-2 hours

PLMU-151,251,351,451 Viola--A,W,Sp 1-2 hours

PLMU-152,252,352,452 Cello--A,W,Sp 1-2 hours

PLMU-153,253,353,453 Double Bass--A,W,Sp 1-2 hours

PLMU-160,260,360,460 Guitar--A,W,Sp 1-2 hours

PLMU-170,270,370,470 Percussion--A,W,Sp 1-2 hours

PLMU-390 Junior Recital--A,W,Sp 1 hour

The music major-performance emphasis student should register for this course the quarter they are ready to present their junior recital. Program is presented in a half recital format. (Fee: \$50)

PLMU-490 Senior Recital--A,W,Sp 1 hour

Music majors should register for this course the quarter in which their recitals are to be presented. (Fee: \$70)

Class Study

CLMU-181 Piano Class I--A,W,Sp 1 hour

Group instruction in piano fundamentals. Required for music majors and minors who are unable to pass the piano proficiency. Open to other individuals with permission of the instructor.

CLMU-182 Piano Class II--W,Sp 1 hour

Continued group instruction in piano fundamentals and repertoire. Prerequisite: CLMU-181 Piano Class I.

CLMU-186 Voice Class--A 1 hour

Group instruction in basic vocal technique and repertoire. Enrollment open to any student not majoring in voice. Repeatable. Prerequisite: audition.

CLMU-218 Diction for Singers--W 3 hours

This course will equip the student to accurately and confidently enunciate Italian, German, and French languages in song. Standard song texts are transcribed into the International Phonetic alphabet and the results are correlated with oral reading in class and on tape recordings.

CLMU-219 Solo Vocal Literature--Sp 3 hours

This course will provide a survey of literature for the solo voice from the onset of Thoroughbass to the 20th Century. Analysis of scores will be done through recordings and live performances.

CLMU-286 Intermediate Voice Class--W 2 hours

Continued vocal instruction with an emphasis on pedagogical techniques developed through laboratory experience. This course is required for the student pursuing either secondary music education or the BME degree (instrumental track). Available to any student desiring further vocal study. Prerequisite: CLMU-186 Voice Class.

Ensembles

PFMU-370 Handbell Choir--A,W,Sp 0-1 hours

The Handbell Choir is comprised of twelve members. Repertoire includes standard classical and sacred handbell literature. Performances include selected chapel services and a major performance during the spring quarter.

PFMU-380 Concert Chorale--A,W,Sp 0-1 hours

The Concert Chorale has a membership of 55 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-382 Men's Glee Club--A,W,Sp 0-1 hours

The Men's Glee Club has a membership of 40 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-384 Women's Choir--W,Sp 0-1 hours

The Women's Choir consists of 50 treble voices, selected by audition. Repertoire embraces all historical periods and styles with performances on campus, in schools, churches, and civic meetings.

PFMU-386 Oratorio Chorus--A 0-1 hours

The Oratorio Chorus is composed of approximately 100 mixed voices. Active during the autumn quarter of each academic year, the group presents a major choral work early in December. Handel's Messiah is performed every third year. Recent repertoire has included Mendelssohn's St. Paul, J. S. Bach's Christmas Oratorio, and John Rutter's Gloria.

PFMU-388 Brass Choir--A,W,Sp 0-1 hours

The Brass Choir, of select instrumentation, consists of 20 to 25 members. It serves the College and its constituency by performing concerts featuring the highest quality brass choir literature. Major concerts are performed each quarter.

PFMU-390 Woodwind Choir--A,W,Sp 0-1 hours

Cedarville College's Woodwind Choir is a premiere performing group featuring flute, single and double reed performers. This group, which is comprised of 20-25 members performs for campus functions and travels several times per academic year to minister in churches throughout Ohio. Audition required.

PFMU-394 String Choir--A,W,Sp 0-1 hours

The String Choir is composed of approximately 20 string players (or more as enrollment and interest allow), selected by audition. The group performs challenging, high quality string literature in concerts on campus and has opportunities to minister in local churches.

PFMU-397 Symphonic Band--A,W,Sp 0-1 hours

The Symphonic Band is composed of approximately 80 members, selected by audition. Performing quality band literature, the band 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 schools.

PFMU-398 Lab Band--A,W,Sp 0-1 hours

The Lab Band has a membership of approximately 16 musicians, selected by audition. The group performs Big Band music that spans the 30's, 40's, and up to present day arrangements. The band is active in both campus and off-campus activities.

Chamber Ensembles

Opportunities exist for qualified students to perform in chamber ensembles. Performances typically are presented as a part of the Tuesday afternoon student recital series, but may occur at other times. Representative ensembles may include:

PFMU-387 Brass Ensemble--A,W,Sp 0-1 hours

PFMU-391 Woodwind Ensemble--A,W,Sp 0-1 hours

PFMU-393 String Ensemble--A,W,Sp 0-1 hours

PFMU-385 Vocal Ensemble--A,W,Sp 0-1 hours



Students reserve individual practice rooms located in the Fine Arts Building to practice for lessons, group performances, and Christian ministries.

Vision Statement

We, the Department of Nursing at Cedarville College, are called to educate nursing students who fulfill God's purpose for their lives in local communities and throughout the world. Through the power of the Holy Spirit we are leaders in promoting the health of people in a variety of settings. We are devoted to God's service through the ministry of nursing.

Program Objectives

The Department of Nursing seeks to produce graduates who demonstrate mastery in four primary areas: godly living, care, culture, and information management.

Accreditation and Licensure

National

The Department of Nursing Program is accredited by the National League for Nursing. Cedarville College is accredited by the North Central Association of Colleges and Secondary Schools.

State

The Cedarville College Department of Nursing has full approval by the Ohio Board of Regents and the Ohio Board of Nursing.

Registration

Graduates are eligible for admission to the examination for licensure as a registered nurse in any state.

Faculty

Irene Alyn, *Chairman*: Professor of Nursing. *Education*: B.A., Taylor University, 1962; Diploma, Cook County School of Nursing, 1962; M.S.N., University of Illinois, 1965; Ph.D., University of Illinois, 1972. At Cedarville since 1981.

Lois Baker, Associate Professor of Nursing. *Education*: Diploma, Blodgett Memorial Medical Center School of Nursing, 1974; B.R.E., Grand Rapids Baptist College, 1975; B.S.N., Nazareth College, 1982; M.S.N., University of Cincinnati, 1984; Ph.D., Wayne State University, 1991. At Cedarville since 1984.

Connie Bierly, Assistant Professor of Nursing. *Education*: Diploma, Bethesda Hospital School of Nursing, 1977; B.S.N., Xavier University, 1989; M.S., Wright State University, 1992. At Cedarville since 1993.

Karen Callan, Instructor of Nursing. *Education*: B.S.N., Cedarville College, 1985. At Cedarville since 1992.

Carolyn Carlson, Professor of Nursing. *Education*: B.S., Capital University, 1959; M.S., U.C.L.A., 1962; M.A., University of Colorado, 1972; Ph.D., University of Colorado, 1974. At Cedarville since 1988.

Linda Cave, Assistant Professor of Nursing. *Education*: B.S.N., University of Northern Colorado, 1981; M.S., University of Colorado Health Sciences Center, 1983. At Cedarville since 1989.

Janet Conway, Associate Professor of Nursing. *Education*: Diploma, Hackley Hospital School of Nursing, 1965; B.S.N., Coe College, 1976; M.S., University of Arizona, 1979; Specialist in Clinical Nursing, Indiana University, 1982; Ph.D., University of Texas, 1988. At Cedarville since 1982.

Margaret Ingalls, Assistant Professor of Nursing. *Education*: Diploma, East Orange General Hospital, 1953; B.S., Indiana University, 1956; M.S.N., Indiana University 1969. At Cedarville since 1990.

Mark Klimek, Assistant Professor of Nursing. *Education*: B.S.N., University of Virginia, 1977; M.S.N., Wayne State University, 1979; graduate study, Wayne State University, 1987-. At Cedarville since 1983.

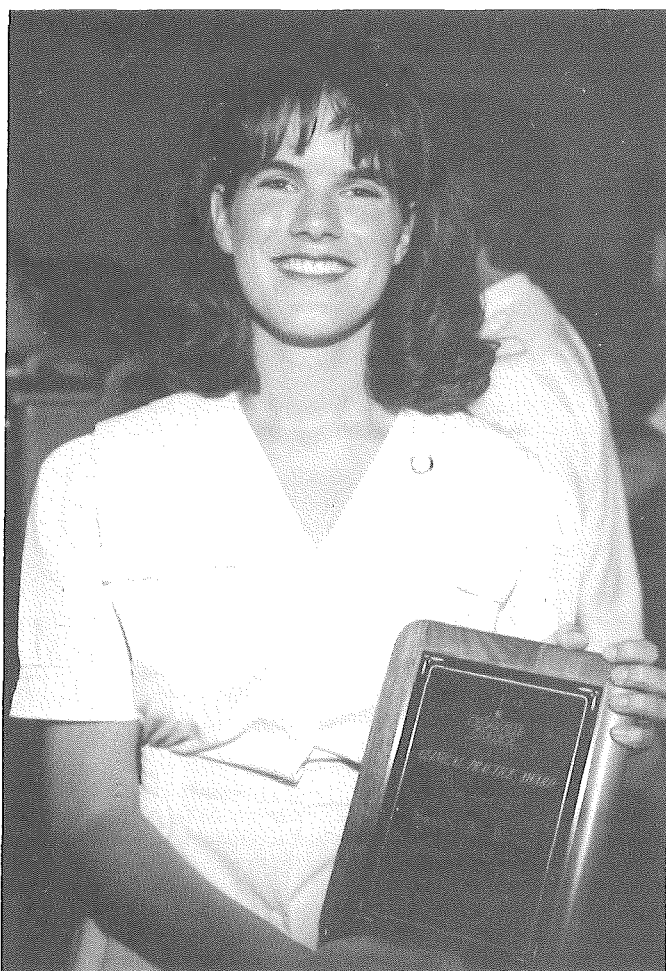
Sandra Pratt, Assistant Professor of Nursing. *Education*: B.S.N., Cedarville College, 1986; M.S., Wright State University, 1992. At Cedarville since 1992.

Sharon Rahilly, Assistant Professor of Nursing. *Education*: B.S., Faith Baptist Bible College, 1973; B.S.N., California State University, 1977; M.S.N., University of California, 1985; Ph.D., University of Virginia, 1994. At Cedarville since 1992.

Teena Sanders, Assistant Professor of Nursing. *Education*: B.S.N., Cedarville College, 1985; M.S.N., University of Cincinnati, 1988. At Cedarville since 1994.

Judith Shrubsole, Assistant Professor of Nursing. *Education*: Diploma, Hamilton Civic Hospital School of Nursing, 1965; Diploma, University of Western Ontario, 1967; B.S.N., University of Western Ontario, 1968; M.S., D'Youville College, 1992. At Cedarville since 1992.

Diane Stribling, Assistant Professor of Nursing. *Education*: B.S., University of South Florida, 1983; M.S., University of South Florida, 1991. At Cedarville since 1994.



The Nursing Department recognizes its top graduates at the annual nursing convocation. 1995 graduate Sarah Kline received the clinical practice award for her excellent performance as a student nurse.

Department Academic Requirements

New Students

Students who wish to apply for admission to Cedarville College and major in nursing need a strong commitment to leading a godly lifestyle and to learning ways to use nursing as a ministry for Christ. A college preparatory curriculum including four years of both mathematics and science provides the best academic preparation for the nursing major. An ACT composite score of 22 (or SAT composite of 1000) or greater is highly recommended.

Licensed Nurses Who Wish to Earn a Bachelor of Science in Nursing (B.S.N.)

The curriculum plan for R.N.'s and L.P.N.'s is individually designed on the basis of previous coursework. Interested students should request R.N.-B.S.N. or L.P.N.-B.S.N. education information from the Department of Nursing. Specific information concerning transfer admission and the transfer of college credit is in the Admissions section of this catalog.

Admission to Nursing Clinical Courses

Students apply for admission to the Department of Nursing clinical courses during the **winter quarter of the sophomore year of college**. Students who meet the following criteria are admitted:

1. Cumulative grade point average (minimum GPA = 2.5).
2. Earn a C- or better in all required courses.
3. Written statement of career goals.
4. Recommendation of academic advisor.
5. Health information.
6. Payment of an application fee (\$25 nonrefundable).
7. Evidence of liability insurance.
8. Current certification in cardiopulmonary resuscitation (CPR).
9. Computer literacy.
10. Demonstrate a level of health consistent with safe nursing practice.

Retention Requirements

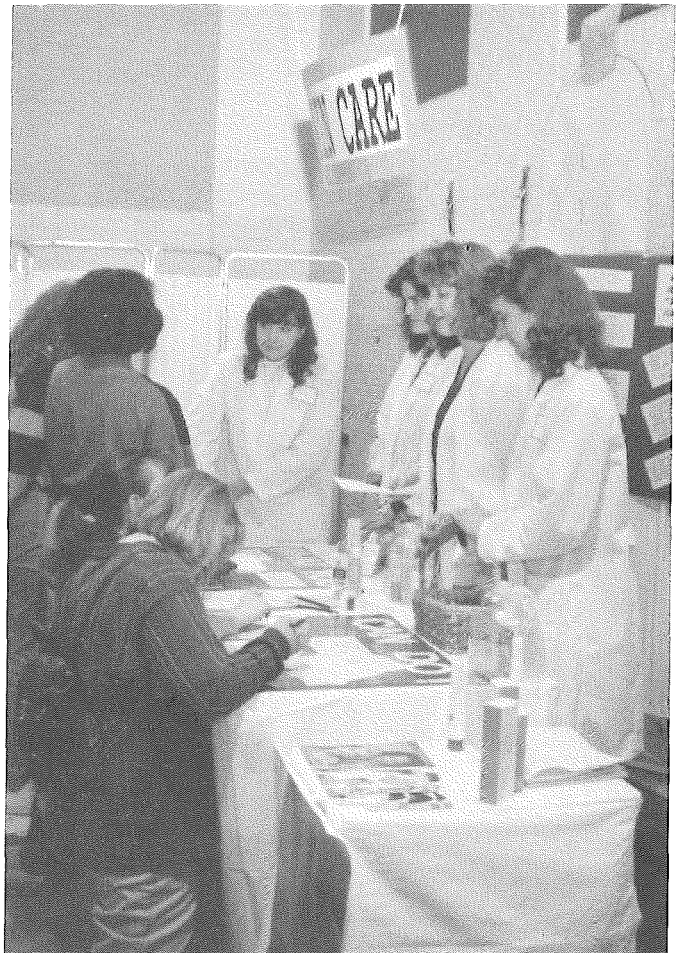
1. Earn a grade of C- or above in all nursing courses.
2. Maintain a cumulative GPA of 2.25.
3. Maintain current CPR certification and professional liability insurance.
4. Attain clinical objectives.
5. Receive a positive recommendation by the faculty of the Department of Nursing.

Graduation Requirements

1. Earn a grade of C- or above in all nursing courses.
2. Register for admission to the examination for state licensure as a registered nurse.
3. Earn a passing score on a national standardized nursing examination selected by the faculty of the Department of Nursing. If a passing score is not attained the student must complete an individually designed remediation program.
4. Receive a positive recommendation by the faculty of the Department of Nursing.
5. Meet college requirements for graduation.

Financial Aid

Federal nursing student loans and nursing scholarships are available to qualified students. Students should consult the Financial Aid Office regarding financial assistance.



Nursing students sponsor an annual health fair to acquaint members of the community with information on a variety of relevant health related topics.

Clinical Activity Information

Facilities

All clinical activity is conducted under the supervision of Cedarville College Department of Nursing faculty. The program utilizes a number of community resources within thirty miles of the campus including public and private, large and small hospitals, health departments, mental health services, rehabilitation centers, clinics, homes for the aged, and physicians' offices.

Students are responsible for transportation to and from clinical settings. Car pools are encouraged to help defray transportation costs.

Health Information

Prior to clinical nursing courses students provide documentation of:

1. Complete physical examination
2. Rubella and Rubeola immunity
3. Negative Mantoux test. Clinical agencies require a negative chest x-ray in the event of a positive TB skin test.
4. History of Chickenpox or results of a Varicella titer
5. Childhood immunizations
6. Tetanus booster (within past 5 years)
7. Hepatitis B vaccine series or signed declination

Uniforms and Equipment

Each student must secure uniforms and name pins prior to the first clinical experience.

Books and equipment needed in clinical settings will be purchased by the student.

Co-Curricular Opportunities

Christian Nurses Association

The Christian Nurses Association promotes spiritual growth and professional development for nurses and service for the community. Membership is open to all nursing students.

Career Opportunities

Graduate and professional schools welcome Cedarville graduates. Nursing graduates obtain positions in the following settings: medical centers, public health departments, home health agencies, clinics, nursing homes, schools, work sites, mental health facilities, and the mission field. Roles assumed by the graduates include direct care provider, leader, manager, health teacher, researcher, and missionary.



More than a dozen healthcare agencies, including the Dayton Children's Hospital, serve as clinical nursing sites. Lois Baker, pictured here, specializes in pediatric 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 **major requirements**.

The support cognate requirements, many of which satisfy General Education requirements, include:

BIO-216,217 Human Anatomy and Physiology	10
BIO-218 Pathophysiology	5
BIO-238 Introductory Microbiology	5
CHEM-154 Principles of Chemistry	5
CHEM-356 Biochemistry	5
PYCH-160 General Psychology	5
PYCH-260 Human Development: Life Span	4
PYCH-261 Psychological Statistics	5
SOC-371 Family and Society	5
SOC-375 Social Movements	4

The nursing major requirements involve ninety-eight quarter hours including:

NSG-101,102 Introduction to Nursing I,II	3
NSG-201 Theoretical and Tech. Found. of Nursing	10
NSG-213 Physical Assessment	3
NSG-301 Maternal and Family Health Nursing	10
NSG-305 Nursing in Relationships	10
NSG-307,309 Community Health Nursing I,II	10
NSG-311 Pharmacology	5
NSG-315 Nutrition of Individuals and Families	3
NSG-401 Nursing Care of Children and Adults I	11
NSG-403 Nursing Care of Children and Adults II	11
NSG-405 Leaders as Managers in Clinical Nursing	11
NSG-483 Theory in Nursing	3
NSG-493 Research in Nursing	5
NSG-495 Seminar in Nursing	3

Nursing Major Curriculum Summary

Proficiency requirements	0-8
Nursing major requirements	98
Support cognate and Gen. Ed. requirements	110
Total (minimum, not including proficiency)	208

Crosscultural Nursing Emphasis

Students anticipating service in intercultural or international settings may choose an emphasis in crosscultural nursing.

Course requirements involve an additional 19 quarter hours including:

ANTH-180 Cultural Anthropology	5
BEPH-226 Religion and Culture	5
BEPT-240 Evangelism	3
NSG-220 Crosscultural Interactions	1
NSG-320 Crosscultural Nursing Internship	1-5
NSG-420 Culture and Health	3
NSG-480 Independent Study	1-3

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in Nursing

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
BIO-238 Introduction to Microbiology	5
CHEM-154 Principles of Chemistry	5
COM-110 Fundamentals of Speech	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSS-100 Foundations of Social Science	5
NSG-101 Introduction to Nursing I	1
NSG-102 Introduction to Nursing II	2
PEF-199 P.A.C.L.	2
PYCH-160 General Psychology	5
PYCH-260 Human Development: Life Span	4
Physical education elective	1
Total	53

Second year:

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
BIO-216,217 Human Anatomy and Physiology	10
BIO-218 Pathophysiology	5
CHEM-356 Biochemistry	5
HUM-140 Introduction to the Humanities	5
NSG-315 Nutrition of Individuals and Families	3
SOC-371 Family and Society	5
SOC-375 Social Movements	4
Literature elective	5
Total	50

Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
NSG-201 Theoretical and Tech. Found. of Nursing	10
NSG-213 Physical Assessment	3
NSG-301 Maternal and Family Health Nursing	10
NSG-305 Nursing in Relationships	10
NSG-307,309 Community Health Nursing I,II	10
NSG-311 Pharmacology	5
PSYH-261 Psychological Statistics	5
Total	61

Fourth year:

NSG-401 Nursing Care of Children and Adults I	11
NSG-403 Nursing Care of Children and Adults II	11
NSG-405 Leaders as Managers in Clinical Nursing	11
NSG-483 Theory in Nursing	3
NSG-493 Research in Nursing	5
NSG-495 Seminar in Nursing	3
Total	44

150 Nursing

Course Descriptions

NSG-101 Introduction to Nursing I--A 1 hour

An introduction to nursing education, practice, and research. Includes discussion of professional ethics and factors which motivate and influence Christian nurses. Students are introduced to the use of information management to provide culturally sensitive care consistent with godly living. (Fee: \$15)

NSG-102 Introduction to Nursing II--Sp 2 hour

The primary focus of this course is the supervised practice and validation of basic nursing skills. Prerequisites: NSG-101 Introduction to Nursing. (Fee: \$30)

NSG-201 Theoretical and Technical Foundations of Nursing--A 10 hours

This course introduces the Department of Nursing's Christian framework and conceptual approach to nursing practice. The student will learn principles and develop technical skills, in application of the nursing process, to provide care to individuals, families, and communities. The course addresses basic imbalances in the five dimensions of physiological, intellectual, emotional, social, and spiritual health. The history, development, and scope of the nursing role is discussed, in the context of the emergence of nursing as a profession within American culture. Prerequisite: NSG-213 Physical Assessment. (Fee: \$30)

NSG-213 Physical Assessment--Su 3 hours

This course focuses on development of systematic approaches to assessing the health balance of individuals. Content includes elements of a health history, performing physical examination, normal physical response patterns of adults, and communicating findings in appropriate terminology. Prerequisite: Admission to clinical nursing courses.

NSG-220 Crosscultural Interactions--A 1 hour

Crosscultural interactions are planned, purposeful experiences designed to gain information and understanding of missions and/or crosscultural nursing. Prerequisite: Consent of instructor.

NSG-301 Maternal and Family Health Nursing--W,Sp 10 hours

Course content and clinical experiences provide the student with the opportunity to facilitate the health balance of mothers, newborns, and family members across the five dimensions as they progress through the childbearing experience. Students interact to support family members in their changing roles as they manage resources in response to new demands. Cultural implications for care of the childbearing family are presented. Prerequisites: NSG-201 Theoretical and Technical Foundations of Nursing, NSG-311 Pharmacology or consent of instructor. (Fee: \$30)

NSG-305 Nursing in Relationships--W,Sp 10 hours

Physical, intellectual, emotional, social, and spiritual factors that disrupt healthy intra and interpersonal relationships are studied. Emphasis is on the biblical view of balance/imbalance and communication patterns of individuals, families, and communities to restore balances in relationships. Prerequisites: NSG-201 Theoretical and Technical Foundations of Nursing, NSG-311 Pharmacology or consent of instructor. (Fee: \$30)

NSG-307 Community Health Nursing I--W 5 hours

Content focuses upon the use of epidemiology to gain insight into the incidence and prevalence of wellness and disease in individuals, families and communities. Assessment/screening techniques are practiced to enable students to assess balance and imbalance in resources and demands. Study includes models of community health, theories of change, environmental and developmental issues that influence the health of individuals, groups, and special populations. Prerequisites: NSG-201 Theoretical and Technical Foundations of Nursing; NSG-311 Pharmacology or consent of instructor.

NSG-309 Community Health Nursing II--Sp 5 hours

The student will develop information management skills when investigating the influence of cultural factors on public health issues of selected populations. By identifying, and extrapolating upon, how these factors influence the health related resources and demands of populations, the student acquires heightened cultural sensitivity and an appreciation of the complexity involved in evaluating forces that maintain or threaten the health balance of communities. Prerequisite: NSG 307 Community Health Nursing I.

NSG-311 Pharmacology--A 5 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: NSG-213 Physical Assessment.

NSG-315 Nutrition of Individuals and Families--Sp 3 hours

Normal nutrition and food consumption patterns of individuals and families of all ages, within various cultures are studied in this course. Metabolism of food and nutrient utilization are described in a health balance framework. The use of nutrition as a resource to promote health is discussed. Corequisite or prerequisite: CHEM-356 Biochemistry or consent of instructor.

NSG-320 Crosscultural Nursing Internship--A,W,Sp,Su

1-5 hours

Students actively participate in health related activities in a facility established to provide care for persons in cultures different than the student's. The length of time involved in the internship may vary according to the student needs. Prerequisite: NSG-201 Theoretical and Technical Foundations of Nursing and consent of instructor.

NSG-401 Nursing Care of Children and Adults I--A 11 hours

Focus is on common physiological imbalances of children and adults and the nursing care required to restore or promote health balance across five dimensions. Special emphasis is given to the application of biblical truth concerning illness, suffering, helping, and common ethical dilemmas encountered by nurses. Prerequisites: NSG-301 Maternal and Family Health Nursing, NSG-305 Nursing and Relationships, NSG-309 Community Health II or consent of instructor. (Fee: \$30)

NSG-403 Nursing Care of Children and Adults II--W 11 hours

Focus is on common physiological imbalances of children and adults and the nursing care required to restore or promote health balance across five dimensions. Continued emphasis is given to the application of Biblical truth encountered by nurses. Prerequisites: NSG-401 Nursing Care of Children and Adults I or consent of instructor. (Fee: \$30)

NSG-405 Leaders as Managers in Clinical Nursing--Sp 11 hours

Focuses on the observation and development of leadership/managerial skills and the nursing management of individuals or groups experiencing complex multidimensional health imbalances. Special emphasis is given to the biblical view of successful leadership/management. Students assume BSN roles working under the supervision of faculty, RN preceptors, clinical specialists, and/or various levels of nurse managers in their clinical area of choice. Prerequisites: NSG-403 Nursing Care of Children and Adults II or consent of instructor. (Fee: \$30)

NSG-420 Culture and Health--A 3 hours

Situations in which crosscultural dilemmas emerge from the interaction of culture and health are analyzed to derive models for resolution. Prerequisites: Junior/senior standing or permission of the instructor.

NSG-440 through NSG-449 Special Topics in Nursing--A,W,Sp,Su

5 hours

Selected topics of interest to faculty and students. Course titles to be announced when scheduled. Prerequisites: NSG-201 Theoretical and Technical Foundations of Nursing or consent of instructor.

NSG-480 Independent Study in Nursing--A,W,Sp,Su 1-4 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-483 Theory in Nursing--W 3 hours

Theories of nursing and borrowed theory are studied to demonstrate conceptual frameworks for nursing care used to restore balance of resources and demands. Students comparatively analyze a data set using Christian nursing theory and at least one other set of assumptions. Prerequisite: NSG-201 Theoretical and Technical Foundations of Nursing or consent of instructor.

NSG-493 Research in Nursing--A 5 hours

The research process is studied as an information management tool applied to the investigation of health balances and imbalances. Basic elements of the research process, including ethical issues, are discussed and applied to published nursing research and student proposals. Prerequisite: NSG-201 Theoretical and Technical Foundations of Nursing, PSYCH 261 Psychological Statistics or consent of instructor.

NSG-495 Seminar in Nursing--Sp 3 hours

Focuses on trends in professional nursing. Students are challenged to integrate a Christian philosophy of nursing as they adopt the role of professional nurse. The political, legal, economic, social, and ethical factors that disrupt the balance of resources and demands in health care are debated. Prerequisite: NSG-403 Nursing Care of Children and Adults II.



Students interested in crosscultural and missionary nursing take advantage of Missionary Internship Service (MIS) trips to see other cultures first-hand.

152 Psychology

Purpose

The Department of Psychology seeks:

1. To develop understanding of biblical content which has psychological impact and to investigate all psychological concepts in the light of scriptural truth.
2. To provide an analysis of the person from the physical, emotional, rational, and spiritual levels.
3. To aid students in their personal adjustment to everyday life through an understanding of human behavior.
4. To prepare students for graduate study in psychology and related areas.
5. To introduce students to the world of work through internships, Christian ministries, guest lecturers and advisement.
6. To provide courses in psychology necessary for teacher certification.

Programs of Study

The Department of Psychology offers the following programs of study:

Majors in:

- Psychology
- Applied psychology with emphases in:
 - Child and family studies
 - Counseling
 - Gerontology
 - Health psychology
 - Industrial/Organizational psychology

Minor in:

- Psychology



Biofeedback equipment in the Psychology Department provides students with insights into physiological psychology.

Faculty

Stanley Ballard, *Chairman*: Professor of Psychology. *Education*: Graduate, Moody Bible Institute, 1954; Th.B., Baptist Bible Seminary, 1956; Th.M., Dallas Theological Seminary, 1964; M.S., North Texas State University, 1965; graduate study, University of Dayton, 1966; graduate study, University of Oklahoma, 1967; Ph.D., North Texas State University, 1971. At Cedarville since 1965.

Robert Abbas, Professor of Psychology. *Education*: B.M., Northwestern College, 1959; B.A. Wartburg College, 1962; M.A., University of Northern Colorado, 1965; Ph.D., University of Missouri, Columbia, 1972. At Cedarville since 1971.

Martin Clark, Vice President for Development; Professor of Counseling. *Education*: B.A., Bob Jones University, 1968; M.A., Bob Jones University, 1968; Ed.D., Virginia Polytechnic Institute and State University, 1974. At Cedarville since 1974.

Charles Dolph, Associate Professor of Psychology. *Education*: B.A., Cedarville College, 1974; M.Ed., Georgia State University, 1976; Ph.D., Georgia State University, 1982. At Cedarville since 1979.

Chi-en Hwang, Assistant Professor of Psychology. *Education*: B.S., National Taiwan University, 1977; M.A., The University of Iowa, 1980; Ph.D., The University of Iowa, 1986. At Cedarville since 1991.

Career Opportunities

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

- counselor in local church
- social agency counselor
- geriatric center counselor
- rehabilitation center counselor
- correctional institution counselor
- state hospital counselor
- teacher of psychology in high school
- psychologist

Psychology

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

Course requirements involve fifty-six quarter hours including:

CIS-100 Introduction to Computers	2
PYCH-100 Orientation to Psychology	1
PYCH-160 General Psychology	5
PYCH-261 Psychological Statistics	5
PYCH-264 Psychology of Abnormal Behavior	5
PYCH-361 History and Systems of Psychology	4
PYCH-365 Psychology of Learning	4
PYCH-366 Fundamentals of Counseling	5
PYCH-369 Social Psychology	5
PYCH-373 Psychological Research	5
PYCH-464 Literature Seminar in Psychology	4
PYCH-499 Psychology Internship	7-16

Psychology majors are encouraged to take a broad spectrum of courses in their undergraduate education. Coursework in biology, computers, mathematics, and philosophy is highly desirable. Particularly relevant courses include:

- BEPH-220 Introduction to Philosophy
- BIO-216 Human Anatomy and Physiology
- GSCI-180 Introduction to Mathematics

Psychology Major Curriculum Summary

Proficiency requirements	0-8
Psychology major requirements	56
Other General Education requirements	80-102
Electives	36-58
Total (minimum, not including proficiency)	192

Suggested Four-Year Curriculum for a Major in Psychology

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
ENG-110 English Composition I	5
ENG-140 English Composition II	5
HUM-140 Introduction to the Humanities	5
PEF-199 P.A.C.L.	2
PYCH-100 Orientation to Psychology	1
PYCH-160 General Psychology	5
Biological science	5
History elective	5
Physical education elective	1
Elective	4
Total	47

Second year:

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
BEPH-220 Introduction to Philosophy	5
COM-110 Fundamentals of Speech	5
GSS-100 Foundations of Social Science	5
PYCH-270,370, or 371	4
PYCH-264 Abnormal Psychology	5
History elective	4-5
Literature elective	5
Math or science elective	5
Physical science elective	5
Total	51-52

Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
PYCH-261 Psychological Statistics	5
PYCH-365 Psychology of Learning	4
PYCH-369 Social Psychology	5
Psychology elective	4-5
Electives	22
Total	48

Fourth year:

PYCH-361 History and Systems of Psychology	4
PYCH-366 Fundamentals of Counseling	5
PYCH-373 Psychological Research	5
PYCH-464 Literature Seminar	4
Psychology elective	4-5
Electives	22-29
Total	45-52

154 Psychology

Applied Psychology

The **applied psychology major** relates psychological theory, research, and principles to the everyday world. Five emphases are available: child and family studies, counseling, gerontology, health psychology, and industrial/organizational psychology.

Course requirements involve eighty-six quarter hours including forty-nine quarter hours of core requirements and thirty-seven quarter hours in an area of emphasis.

<i>Psychology core requirements</i>	49
CIS-100 Introduction to Computers	2
PYCH-100 Orientation to Psychology	1
PYCH-160 General Psychology	5
Human development elective (select one not required in the chosen emphasis)	4
PYCH-270 Child Development	4
PYCH-370 Adolescent Development	4
PYCH-371 Adult Development and Aging	4
PYCH-261 Psychological Statistics	5
PYCH-264 Psychology of Abnormal Behavior	5
PYCH-361 History and Systems of Psychology	4
PYCH-365 Psychology of Learning	4
PYCH-366 Fundamentals of Counseling	5
PYCH-369 Social Psychology	5
PYCH-373 Psychology Research	5
PYCH-464 Literature Seminar in Psychology	4



Robert Abbas, professor of psychology, licensed psychologist, and experienced counselor, teaches and researches in the area of human growth and development.

The **child and family studies emphasis** focuses on the development of traits that are commonly found in the healthy family. Healthy emotional and spiritual dimensions are emphasized along with the analysis of factors which lead to dysfunctional behavior and inadequate spiritual development.

Course requirements include:

CRJU-231 Juvenile Delinquency	4
PYCH-270 Child Development	4
PYCH-275 The Parent and the Child	4
PYCH-370 Adolescent Development	4
PYCH-470 Seminar-Behavioral Problems in Child	4
PYCH-499 Internship in Child and Family Studies ..	7-16
SOC-230 Principles of Sociology	5
SOC-371 Family and Society	5

The **counseling emphasis** stresses short-term processes, healthy growth, rational planning, and decision making involved in helping people of all ages who have personal, social, or spiritual concerns.

Course requirements include:

PYCH-363 Psychological Measurement	5
PYCH-367 Group Dynamics	5
PYCH-371 Adult Development and Aging	4
PYCH-372 Psychology of Personality	4
PYCH-390 Physiological Psychology	5
PYCH-440 Counseling Skills	5
PYCH-499 Psychology Internship in Counseling	7-16
Recommended electives:	
BIO-216,217 Human Anatomy and Physiology	10

The **gerontology emphasis** addresses physical, psychological, social and spiritual development and experience in the adult years.

Course requirements include:

PYCH-301 Death and Dying	4
PYCH-371 Adult Development and Aging	4
PYCH-387 Group Dynamics	5
PYCH-372 Psychology of Personality	4
PYCH-390 Physiological Psychology	5
PYCH-462 Seminar in Gerontology	4
PYCH-499 Internship in Gerontology	7-16
Psychology or social science elective	5
Recommended electives include:	
ANTH-180 Cultural Anthropology	5
BIO-216,217 Human Anatomy and Physiology	10
PEH-206 Gerontology Health Issues	2
SOC-230 Principles of Sociology	5
SOC-233 Introduction to Social Work	5
SOC-342 Human Sexuality	3
SOC-373 Social Problems	5

The **health psychology emphasis** focuses on understanding psychological influences on how people stay healthy, why they become ill, and how they respond when they do get ill. Special attention is given to stress management, relaxation, biofeedback, and the mind-body relationship.

Course requirements include:

PYCH-330 Health Psychology	4
PYCH-363 Psychological Measurement	5
PYCH-367 Group Dynamics	5
PYCH-371 Adult Development and Aging	4
PYCH-372 Psychology of Personality	4
PYCH-390 Physiological Psychology	5
PYCH-431 Seminar in Health Psychology	4
PYCH-499 Internship in Health Psychology	7-16

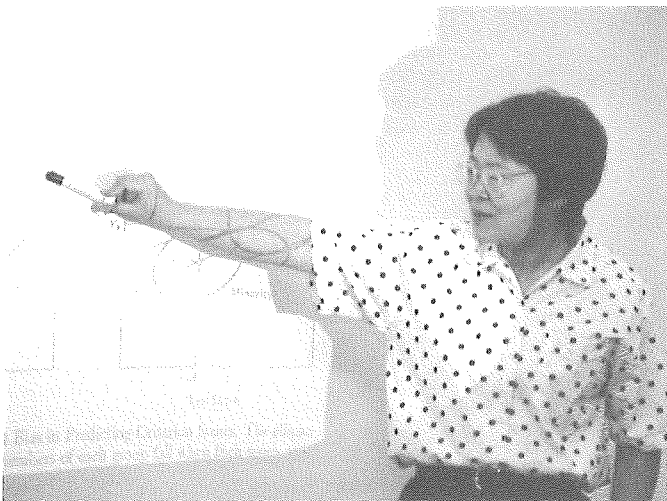
Recommended electives include:

BIO-216,217 Human Anatomy and Physiology	10
BIO-306 Genetics	5
PEH-300-308 Any three of these seminars	6
PEH-250 Community Health Concepts	3
PEM-390 Physiology of Exercise	4

The **industrial/organizational psychology emphasis** studies human behavior in work settings and applies the principles of psychology to the workplace.

Course requirements include:

PYCH-363 Psychological Measurement	5
PYCH-364 Industrial/Organizational Psychology	4
PYCH-367 Group Dynamics	5
PYCH-463 Seminar in Industrial/Organ. Psych.	4
PYCH-499 Internship in Industrial/Organ. Psych	7-16
Electives in business or psychology	12



Professor Chi-en Hwang, an experienced psychology researcher, teaches psychological statistics.

Applied Psychology Major Curriculum Summary

Proficiency requirements	0-8
Other General Education requirements	80-102
Applied Psychology requirements	85
Electives	5-27
Total (minimum, not including proficiency)	192

Suggested Four-Year Curriculum for a Major in Applied Psychology

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
COM-110 Fundamentals of Speech	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
HUM-140 Introduction to the Humanities	5
PEF-199 P.A.C.L.	2
PSYCH-100 Orientation to Psychology	1
PYCH-160 General Psychology	5
PYCH- Developmental Psychology elective	4
Biology elective	5
History elective	5
Physical education elective	1
Elective	4
Total	55

Second year:

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
BEPH-220 Introduction to Philosophy	5
CIS-100 Introduction to Computers	2
COM-110 Fundamentals of Speech	5
GSS-100 Foundations of Social Science	5
PYCH-261 Psychological Statistics	5
PYCH-264 Abnormal Psychology	5
PYCH-365 Psychology of Learning	4
PYCH- Emphasis requirement	4
Literature elective	5
Physical science elective	5
Total	53

Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
PYCH-369 Social Psychology	5
PYCH-464 Literature Seminar	4
PYCH-499 Psychology Internship	7-16
PYCH- Emphasis requirement	15
SOC-230 Principles of Sociology	5
Math or science elective	5
Social science or history elective	4-5
Total	53-60

Fourth year:

PYCH-361 History and Systems of Psychology	5
PYCH-373 Psychological Research	4
PYCH- Emphasis requirements	15
Electives	7
Total	31

156 Psychology

Minor

The **minor in psychology** is designed to provide students majoring in disciplines outside of the Department of Psychology with a basic understanding of psychology.

Course requirements involve twenty-four quarter hours including:

PYCH-160 General Psychology	5
PYCH-264 Psychology of Abnormal Behavior	5
Electives in psychology	14

Course Descriptions

PYCH-100 Orientation to Psychology--W 1 hour

This course will acquaint 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-160 General Psychology--A,W,Sp,Su 5 hours

This course is 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: \$5.00)

PYCH-260 Human Development: Life Span--Sp 4 hours

An analysis of the physiological, social, and psychological development of the individual from conception through the total life span. Prerequisite: PYCH-160 General Psychology. Students who have taken Adolescent Development are not eligible for this course.

PYCH-261 Psychological Statistics--A,Sp 5 hours

Designed to provide an elementary coverage of descriptive and sampling statistics commonly used in psychology. This includes problems of measurement, measures of central tendency and dispersion, linear correlation, prediction, and simple tests of significance. Prerequisite: PYCH-160 General Psychology.

PYCH-264 Psychology of Abnormal Behavior--W 5 hours

Focus upon etiology, symptomatology, and prognosis of psychological disturbance. Prerequisite: PYCH-160 General Psychology.

PYCH-270 Child Development--A,W,Sp,Su 4 hours

A study of the physiological, psychological, and spiritual growth of the child from conception to the preadolescent level. Developmental research is emphasized. Prerequisite: PYCH-160 General Psychology.

PYCH-275 The Parent and the Child--W 4 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-301 Death and Dying--A,W 4 hours

An analysis of contemporary thought concerning thanatology, the study of death and dying, and a study of Biblical content that brings balance to these views. The content includes an examination of cultural attitudes about death and dying, facing death in a technological age, being a survivor, and the personal and social choices of last rites. Prerequisite: PYCH-160 General Psychology.

PYCH-330 Health Psychology--W 4 hours

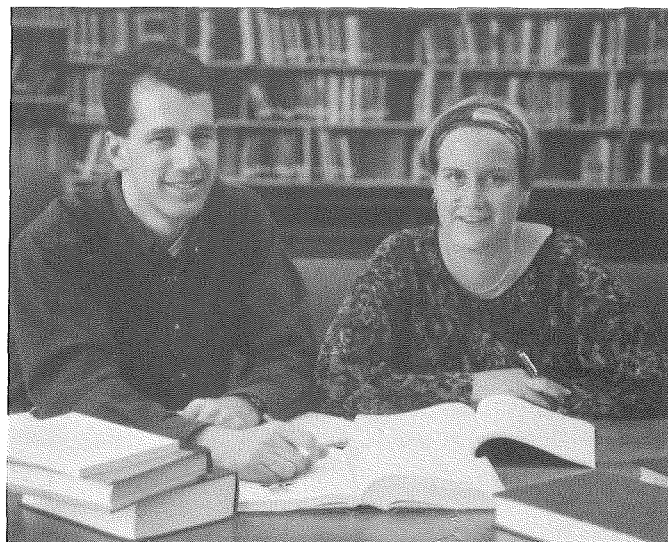
Designed to investigate the research and theory of many disciplines to understand how psychology and health are interconnected. The focus of attention is on the major topics and problem areas in health psychology. Prerequisite: PYCH-160 General Psychology. (Fee: \$25). (odd years)

PYCH-361 History and Systems of Psychology--A 4 hours

Major trends in the development of psychology from its beginning to the present. Emphasis is placed upon contemporary theory. Prerequisite: PYCH-160 General Psychology.

PYCH-363 Psychological Measurement--W 5 hours

An analysis of theoretical principles and assumptions basic to the measurement of human characteristics and behavior. Offers training in the construction, selection, and use of psychological tests. Prerequisite: PYCH-261 Psychological Statistics. (Fee: \$20).



National conferences provide students with opportunities to conduct research and present their results. Scott Annoni and Kris Bennick presented their original research at the 14th annual Midwest Undergraduate Psychology Conference.

PYCH-364 Industrial/Organizational Psychology 4 hours

Psychology applied to the world of work. Emphasis is on the methodology and activities of industrial/organizational psychologists. Prerequisite: PYCH-160 General Psychology or permission of instructor. (even years)

PYCH-365 Psychology of Learning--W 4 hours

Concepts and theories of learning with emphasis placed on personal applications of accepted procedures. Prerequisite: PYCH-160 General Psychology.

PYCH-366 Fundamentals of Counseling--A,Sp 5 hours

An introductory course emphasizing the underlying philosophies, current theories, and accepted procedures of counseling. Prerequisite: PYCH-160 General Psychology.

PYCH-367 Group Dynamics--A 5 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 a part of the course. Prerequisite: PYCH-160 General Psychology.

PYCH-369 Social Psychology--Sp 5 hours

The study of the behavior of individuals as it is influenced by past and/or present interactions with social factors. Prerequisite: PYCH-160 General Psychology.

PYCH-370 Adolescent Development--A,Sp 4 hours

Recent research dealing with adolescents will be emphasized. Emphasis is placed on the interaction of cultural, social, and personal family variables. Spiritual variables integrated into the developmental process. Prerequisite: PYCH-160 General Psych. (odd years)

PYCH-371 Adult Development and Aging--A 4 hours

The study of physical, psychological, social and spiritual development and experience in the adult years. Prerequisite: PYCH 160 General Psychology (odd years)

PYCH-372 Psychology of Personality--A 4 hours

Contemporary theories of the development, organization, and dynamics of personality. Prerequisite: PYCH-160 General Psychology or permission of instructor.

PYCH-373 Psychological Research--A,W 5 hours

An introduction to methods utilized in psychological research; emphasis upon experimental methodology and research design. Prerequisite: PYCH-261 Psychological Statistics. (Fee: \$5)

PYCH-376 Cognition and Perception--A 4 hours

A survey of research and theory in the study of sensation, perception, and thinking in human beings.

PYCH-390 Physiological Psychology--Sp 5 hours

Explores the physiological, biological, and anatomical mechanisms responsible for behavior. Prerequisite: PSYCH-160 General Psychology.

PYCH-431 Seminar in Health Psychology--Sp 4 hours

An in-depth exploration of contemporary issues in health psychology. The seminar focuses on initiating change and solving problems through the application of biblical and psychological principles. The seminar is organized around senior projects. Prerequisite: PSYCH-330 Health Psychology.

PYCH-440 Counseling Skills--Sp 5 hours

The emphasis of this course is on assisting individuals in ways of dealing with solving, or transcending their problem situations. The methods and skills of helping others are investigated. Prerequisite: PSYCH-366 The Fundamentals of Counseling.

PYCH-460 Independent Study in Psychology--A, W, Sp, Su 1-4 hours

Independent research carried out by the advanced psychology student in an area of interest and usefulness to the student. Prerequisite: Twelve quarter hours of psychology and permission of instructor.

PYCH-462 Seminar in Gerontology--Sp 4 hours

An in-depth exploration of contemporary issues in gerontology for advanced students. The seminar focuses on initiating change and solving problems through the application of biblical and psychological principles. The seminar is organized around senior projects. Prerequisite: PSYCH-371 Adult Development and Aging.

PYCH-463 Seminar in Industrial/Organizational Psychology--Sp 4 hours

An in-depth exploration of contemporary issues in the world of work for advanced students. The seminar focuses on initiating change and solving problems through the application of Biblical and psychological principles. The seminar is organized around senior projects.

PYCH-464 Literature Seminar--A, W, Sp, Su 4 hours

Reports and discussions of research literature in psychology. Required of all psychology majors during their senior year. Prerequisite: Major or minor in psychology or consent of instructor.

PYCH-465 through PSYCH-469 Special Topics Seminar 1-4 hours

Various topics to be offered as interest demands. Available to students with special interests in psychology. Prerequisites: Major or minor in psychology and consent of instructor.

PYCH-470 Seminar on Behavioral Problems in Children 4 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-499 Psychology Internship--A, W, Sp, Su 7-16 hours

Junior and senior psychology majors may, with approval of the department, engage in psychological activity at a clinic, hospital, or other mental health institution. One member of the psychology department will supervise the student's internship. The department will determine the number of credit hours that will be given for individual work experience.



Because of the focus on teaching at Cedarville, students often work together with faculty on projects.

158 Science and Mathematics

Purpose

The Department of Science and Mathematics offers curricula in biology, chemistry, physics, mathematics, and the earth-space sciences. The department seeks to present the natural sciences and mathematics as disciplines through which students can learn to understand the creation and its Creator, and exercise stewardship of this knowledge as professionals who seek to make a difference in their vocations for the benefit of family, church, community, and environment.

Therefore, this department seeks to:

1. Provide a meaningful learning experience in the sciences and mathematics as part of the liberal arts core curriculum.
2. Aid students in developing clear and orderly thinking processes through the use of the techniques of science and mathematics.
3. Assist students in development of a biblical perspective of the sciences which is essential in understanding the controversial issues such as origin of life, biomedical ethics, and genetic engineering.
4. Prepare students for graduate study or for further professional study in the medical, environmental, or agricultural sciences.
5. Prepare secondary teachers with a biblical perspective of science.
6. Prepare students to serve in other science-related vocations.

Personal Requirements

Students who enjoy and excel in high school mathematics and science courses possess the greatest potential for success as graduates of this department. Therefore, to prepare for the mathematics and science curricula, students should take a college preparatory curriculum which includes:

- 4 units of English
- 4 units of mathematics (algebra, geometry, and trigonometry)
- 4 units of science (physical science, biology, chemistry, and physics)
- 3 units of social science
- 2 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.) with majors in:

- Biology
- Chemistry
- Comprehensive Science
- Mathematics
- Mathematics Education

Bachelor of Science (B.S.) with a major in:

- Biology
- Mathematics

Minors in:

- Biology
- Chemistry
- Mathematics
- Physics

Special programs:

- Medical Technology
- Preagriculture
- Premedical (Pre-health professions)
- Prepharmacy
- Prephysical Therapy

Career Opportunities

Graduates of this department have gained admission to outstanding graduate and professional schools around the nation. Careers pursued by graduates include:

- agricultural consultant
- biologist
- botanist
- business actuary
- chemist
- chiropractor
- college professor
- computer scientist
- environmental scientist
- environmental toxicologist
- health professional
- laboratory technician
- mathematician
- pharmacist
- physical therapist
- physician
- researcher
- statistician
- teacher
- wildlife biologist

Faculty

Daniel Wetzel, *Chairman*; Professor 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.

Donald Baumann, Professor of Biology and Chemistry. *Education:* B.S., Iowa State University, 1960; M.S., Iowa State University, 1962; Ph.D., Iowa State University, 1964. At Cedarville since 1964.

Edwin Braithwaite, Associate Professor of Mathematics. *Education:* B.A., Western Washington University, 1966; M.A., Western Washington University, 1968; Ph.D., University of Illinois-Urbana-Champaign, 1975. At Cedarville since 1976.

Leroy Eimers, Professor of Physics and Mathematics. *Education:* B.S., Hobart College, 1963; M.S., Syracuse University, 1966; Ph.D., Syracuse University, 1970. At Cedarville since 1981.

Dennis Flentge, 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; graduate study, University of Wisconsin, summer, 1984. At Cedarville since 1980.

Joseph Francis, Assistant Professor of Biology. *Education:* B.S., Michigan State University, 1981; Ph.D., Wayne State University, 1988; Post-Doctoral Fellow, Department of Pediatrics, University of Michigan, 1988-1991. At Cedarville since 1992.

Steven Gollmer, Assistant Professor of Physics. *Education:* B.S., Pillsbury Baptist Bible College, 1982; B.S., Northern Illinois University, 1985; M.S., University of Illinois, 1986; Ph.D., Purdue University, 1994. At Cedarville since 1994.

Larry Helmick, Professor of Chemistry. *Education:* B.S., Cedarville College, 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; National Research Council Senior Research Fellow, 1988-1989. At Cedarville since 1968.

C. Sue Justis, Professor of Biology. *Education:* B.A., Ottawa University, 1969; M.S., Miami University, 1973; Ph.D., Miami University, 1985. At Cedarville since 1992.

Ling Lin, Instructor in Biology. *Education:* B.S., Hebei Medical College, China, 1986. Resident Pediatrician, Baoding Hospital, China, 1986-89; Visiting Research Scientist, Yale University, 1990-92; Postdoctoral Associate, Yale University, 1992-94. At Cedarville since 1994.

Dali Luo, Assistant Professor of Mathematics. *Education:* B.S., South China Institute of Technology, 1982; M.S., Claremont Graduate School, 1988; Ph.D., Washington State University, 1992. At Cedarville since 1992.

Douglas Miller, Associate Professor of Chemistry. *Education:* B.S., University of Rochester, 1977; Ph.D., University of Colorado, 1981; postdoctoral research, University of Iowa, 1982 and City University of New York, 1982-1984; Summer Faculty Research Fellow, NASA-Lewis Research Center, 1986-1990, 1992. At Cedarville since 1984.

Terry Phipps, Professor of Biology. *Education:* B.S., Cedarville College, 1970; M.S., Wright State University, 1974; Ph.D., The Ohio State University, 1987. At Cedarville since 1978.

Kevin Roper, Assistant Professor of Mathematics. *Education:* B.S., 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 since 1995.

James Sellers, Assistant Professor of Mathematics. *Education:* B.S., University of Texas at San Antonio, 1987; Ph.D., Pennsylvania State University, 1992. At Cedarville since 1992.

Robert Schumacher, Assistant Professor of Mathematics. *Education:* B.S., Computer Science, United States Air Force Academy, 1970; M.S., Operations Research, Air Force Institute of Technology, 1979. At Cedarville Since 1993.

John Silvius, Professor of Biology. *Education:* B.A., Malone College, 1969; graduate study, Western Michigan University, 1970; Ph.D., West Virginia University, 1974; postdoctoral study, University of Illinois, 1974-76. At Cedarville since 1979.

John Whitmore, Assistant Professor of Geology. *Education:* B.S., Kent State University, 1985; M.S., Institute for Creation Research, 1991. At Cedarville since 1991.

Austin Elmore, Professor Emeritus of Biology. *Education:* B.A., Wabash College, 1932; special study, Butler University, 1946; M.A.T., Indiana University, 1966. At Cedarville from 1961 to 1977.

L. Bert Frye, Associate Professor Emeritus of Physical Science. *Education:* B.S., University of Missouri, 1940; graduate study, Faith Seminary, 1947-48; B.D., Grand Rapids Baptist Seminary, 1953; graduate study, Michigan State University, 1958-59, summer of 1961; University of California (Berkeley), summer of 1960; M.A.T., Miami University, 1964; University of Arizona, summer, 1969; State University of New York (Stony Brook), summer 1970. At Cedarville from 1961 to 1981.



Science professors often work closely with students to help them interpret laboratory results.

160 Science and Mathematics

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 seventy-three quarter hours including:

BIO-114 Introduction to Biology	5
BIO-115 General Zoology	5
BIO-134 General Botany	5
BIO-200 General Ecology	5
BIO-306 Genetics	5
CHEM-151,152,153 General Chemistry I,II,III.....	12
CHEM-356 Biochemistry	5
CHEM-357 Organic Chemistry I	5
GSCI-185 Precalculus	5
GSCI-440 Seminar	1
Electives in biology	20

Students with specific career goals may orient the bachelor of arts in biology curriculum toward particular emphases. For example, students pursuing careers in the **health professions** (prephysical therapy students see that section of the catalog) should include:

CHEM-358,359 Organic Chemistry II, III.....	9
MATH-281 Analytic Geometry and Calculus I	5
PHYS-172 College Physics I	5
PHYS-173 College Physics II	5
PHYS-174 College Physics III	5

Students interested in careers in **environmental biology** should elect courses such as BIO-300, BIO-312, and BIO-334. Students choosing to enroll in courses provided at the AuSable Institute in northern Michigan should enroll in BIOA-340, Topics in Environmental Biology. Through this program students may achieve certification in one of several areas including "interpretive naturalist" and "environmental analyst." Fellowships and grants are awarded by the AuSable Institute based upon academic performance and financial need, respectively.

Students anticipating **graduate study** in biology should consider completing the bachelor of science in biology curriculum.

CHEM-358,359 Organic Chemistry II,III.....	9
MATH-281,282,283 Analytic Geometry and Calculus I,II,III	15
PHYS-271,272,273 General Physics I,II,III	15

Biology Major (Bachelor of Arts) Curriculum Summary

Proficiency requirements	0-8
Other General Education requirements	65-87
Biology major requirements	73
Electives	32-54
Total (minimum, not including proficiency)	192

A complete description of the General Education Requirements is found on page 31.

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

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
BIO-114 Introduction to Biology	5
BIO-115 General Zoology	5
CHEM-151,152,153 General Chemistry I,II,III	12
ENG-110 English Composition I	5
*ENG-140 English Composition II	5
GSCI-185 Precalculus	5
PEF-199 P.A.C.L.	2
Physical education elective	1
Total	48

Second year:

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
BIO-134 General Botany	5
BIO-200 General Ecology	5
COM-110 Fundamentals of Speech	5
GSS-110 Foundations of Social Science	5
*HUM-140 Introduction to the Humanities	5
*Literature elective	5
Electives	10
Total	48

Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
BIO-306 Genetics	5
CHEM-356 Biochemistry	5
CHEM-357 Organic Chemistry I.....	5
Biology electives	10
*History elective	5
*Humanities elective	5
*Social science elective	5
Total	48

Fourth year:

Seminar	1
Biology electives	15
Electives	32
Total	48

*Courses can be delayed one year in order for students in preprofessional programs to take calculus, physics, and additional organic chemistry.

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. The program enhances the depth of knowledge in biology and increases the breadth of exposure to chemistry, mathematics, and physics.

Course requirements involve one-hundred and eighteen hours including:

<i>Biology requirements</i>	25
BIO-114 Introduction to Biology	5
BIO-115 General Zoology	5
BIO-134 General Botany	5
BIO-200 General Ecology	5
BIO-306 Genetics	5
<i>Departmental requirements</i>	63
CHEM-151,152,153 General Chemistry I,II,III	12
CHEM-356 Biochemistry	5
CHEM-357,358,359 Organic Chemistry I,II,III	15
MATH-281,282,283 Analytical Geometry and Calculus I, II, III	15
PHYS-271,272,273 General Physics I,II,III	15
GSCI-440 Seminar	1
<i>Electives (meeting the following criteria)</i>	30
A. Twenty-five hours must be 300-400 level courses	
B. Three courses each representing a different emphasis area below must be included.	
C. Additional biology electives, two or more additional courses selected from <u>one</u> of the emphasis areas below as necessary (with part B) to complete <u>three</u> or more courses in the same emphasis area.	
<u>Set I Cellular and Molecular Biology:</u>	
BIO-238 Introductory Microbiology	5
BIO-407 Molecular Biology of the Cell	5
BIO-432 Immunology	5
<u>Set II Organismic Biology:</u>	
BIO-218 Pathophysiology	5
BIO-300 Environmental Physiology	5
BIO-316,317 Human Structure and Function I,II	10
BIO-336 Plant Physiology	5
BIO-411 Vertebrate Embryology	5
<u>Set III Comparative Emphasis - Taxonomy/Morphology:</u>	
BIO-238 Introductory Microbiology	5
BIO-312 Invertebrate Zoology	5
BIO-313 Vertebrate Zoology	5
BIO-334 Plant Taxonomy and Ecology	5
<u>Set IV Environmental Physiology/Ecology:</u>	
BIO-300 Environmental Physiology	5
BIO-334 Plant Taxonomy and Ecology	5
BIO-336 Plant Physiology	5
BIOA-340 Topics in Environmental Biology	5
BIO-405 Environmental Biology Internship	5-10

<u>Set V Laboratory Methodology and Independent Study:</u>	
BIO-400 Independent Study in Biology	2-4
BIO-405 Environmental Biology Internship	2-10
BIO-436 Radiation Biology	5
MATH-384 Probability and Statistics	5

Biology Major (Bachelor of Science) Curriculum

Summary

Proficiency requirements	0-8
Other General Education requirements	65-87
Biology major requirements	118
Electives	0-9
Total (minimum, not including proficiency)	192

A complete description of the General Education Requirements is found on page 31.

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

<i>First Year:</i>	
BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	5
BIO-114 Introduction to Biology	5
BIO-115 General Zoology	5
CHEM-151 General Chemistry I,II,III	12
COM-110 Fundamentals of Speech	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
PEF-199 P.A.C.L.	2
Total	48
<i>Second Year:</i>	
BEGE-273 Old Testament Survey	4
BIO-134 General Botany	5
BIO-200 General Ecology	5
CHEM-357,358,359 Organic Chemistry I,II,III	15
MATH-281,282,283 Calculus I,II,III	15
Biology elective	5
Physical education elective	1
Total	50
<i>Third Year:</i>	
BEGE-274 New Testament Survey	5
BIO-306 Genetics	5
CHEM-356 Biochemistry	5
GSS-100 Foundations of Social Science	5
PHYS-271,272,273 General Physics I,II,III	15
Biology electives	10
Social science elective	4
Total	49
<i>Fourth Year:</i>	
BEGE-375 God and History	4
BEGE-376 God and the Church	4
GSCI-440 Seminar	1
HUM-140 Introduction to Humanities	5
Biology electives	15
History elective	5
Humanities elective	5
Literature elective	5
Elective	1
Total	45

162 Science and Mathematics

Chemistry

The **chemistry major** provides general course background in chemistry for students anticipating careers in industry, research, education, and the health professions. Students with specific career goals may orient the curriculum to meet their professional goals.

Course requirements involve seventy-nine quarter hours including:

CHEM-151,152,153 General Chemistry I,II,III	12
CHEM-254 Quantitative Analysis	4
CHEM-255 Analytical Chemistry	5
CHEM-357,358,359 Organic Chemistry I,II,III	15
*CHEM-451,452,453 Physical Chemistry I,II,III	11
GSCI-440 Seminar	1
MATH-281,282,283 Analytic Geometry and Calculus I,II,III	15
PHYS-271,272,273 General Physics I,II,III	15
Elective in chemistry	1
*BIO-436 Radiation Biology or PHYS-378,379 Modern Physics I,II may be substituted for CHEM-453 Physical Chemistry III.	

Students preparing for **graduate study** should include:

CHEM-356 Biochemistry	5
CHEM-454 Advanced Inorganic Chemistry	5
MATH-387 Differential Equations	5
PHYS-378,379 Modern Physics I,II	10

Students preparing for medicine, dentistry, osteopathy, or any of the **health professions** should include:

BIO-238 Introductory Microbiology	5
BIO-306 Genetics	5
BIO-313 Vertebrate Zoology	5
(or BIO-411 Vertebrate Embryology	5)
BIO-316,317 Human Structure and Function I,II	10
BIO-436 Radiation Biology (may be substituted for CHEM-453)	5
CHEM-356 Biochemistry	5

Chemistry Major Curriculum Summary

Proficiency requirements	0-8
Other General Education requirements	70-92
Chemistry major requirements	79
Electives	21-43
Total (minimum, not including proficiency)	192

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in Chemistry

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
CHEM-151,152,153 General Chemistry I,II,III	12
ENG-110 English Composition I	5
*ENG-140 English Composition II	5
MATH-281,282,283 Analytic Geo. and Calculus I,II,III	15
PEF-199 P.A.C.L.	2
Physical education elective	1
Total	48

Second year:

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
BIO-114 Introduction to Biology	5
CHEM-254 Quantitative Analysis	4
CHEM-255 Analytical Chemistry	5
*COM-110 Fundamentals of Speech	5
*GSS-100 Foundations of Social Science	5
PHYS-272,273,274 General Physics I,II,III	15
Total	47

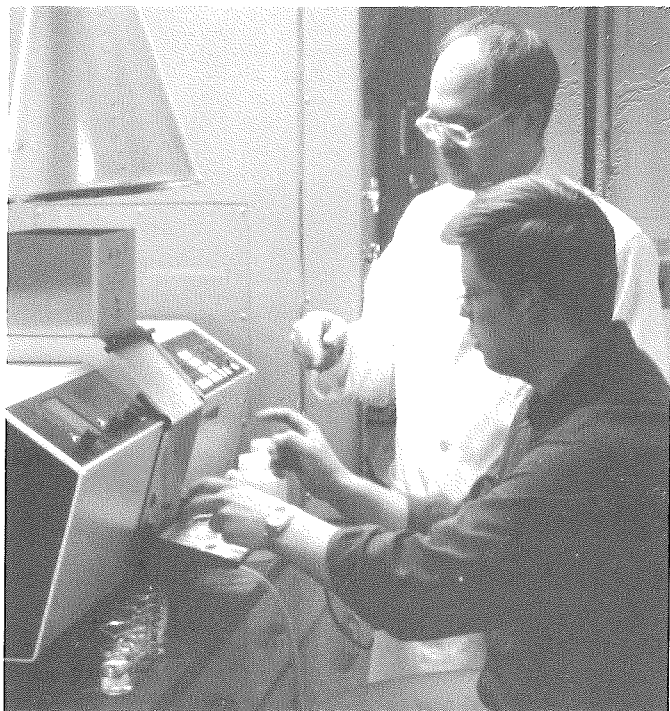
Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
CHEM-357,358,359 Organic Chemistry I,II,III	15
HUM-140 Introduction to the Humanities	5
*History elective	5
*Literature elective	5
Electives	12
Total	50

Fourth year:

CHEM-451,452,453 Physical Chemistry I, II, III	11
GSCI-440 Seminar	1
Chemistry electives	1
Humanities elective	5
Social science elective	4
Electives	25
Total	47

*Courses can be delayed one year in order for students in preprofessional programs to take preprofessional requirements.



Chemistry majors enjoy excellent facilities and extensive analytical equipment, including the flame spectrophotometer pictured here.

Comprehensive Science Major

The **comprehensive science major** is intended exclusively for secondary education students. This major offers a broad exposure to the various areas of science including biology, chemistry, earth science, and physics, and provides basic preparation for teaching these disciplines at the secondary school level. Students desiring greater depth of training in one science area, with the intention of attending graduate school, should plan to major in the science area or areas of their choice.

Course requirements involve ninety-six quarter hours including:

GSCI-440 Seminar	1
MATH-185 Precalculus	5

Thirty quarter hours in biology:

BIO-114 Introduction to Biology	5
BIO-115 General Zoology	5
BIO-134 General Botany	5
Electives in biology	15

Forty quarter hours in chemistry and physics:

CHEM-151,152 General Chemistry I,II	8
CHEM-357 Organic Chemistry I.....	5
PHYS-172,173,174 College Physics I,II,III	15
Electives in chemistry or physics	12

Twenty hours of earth sciences chosen from:

GEO-250 Introduction to Geography	2
GEO-351,352 World Regional Geo. (West & East)	8
GSCI-166 Introduction to Physical Geology	5
GSCI-167 Historical Geology	5
GSCI-264 Introductory Astronomy	5

Students must also complete the professional secondary education requirements for certification listed in the Education Department section of the catalog.



Geology students gain an understanding of the significance of various rock formations by taking field trips with professor John Whitmore.

Comprehensive Science Major Curriculum Summary

Proficiency requirements	0-8
Other General Education requirements	55-77
Comprehensive Science major requirements	101
Education requirements	47
Total (minimum, not including proficiency)	203-225

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in Comprehensive Science

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
BIO-114 Introduction to Biology	5
BIO-115 General Zoology	5
CHEM-151,152, General Chemistry I,II	8
EDUC-201 Preliminary Student Involvement	0
ENG-110 English Composition I.....	5
ENG-140 English Composition II	5
GSS-100 Foundations of Social Science	5
HUM-140 Introduction to the Humanities	5
PEF-199 P.A.C.L.	2
Total	48

Second year:

BEGE-273 Old Testament Survey	4
BIO-134 General Botany	5
CHEM-357 Organic Chemistry I.....	5
COM-110 Fundamentals of Speech	5
EDUC-100 Introduction to Education	2
EDUC-101 Field Experience	2
EDUC-102 Education of the Exceptional Child	2
EDUC-302 Teaching Thinking Skills	2
EDUC-321 Philosophy of Education	3
GEO-250 Introduction to Geography	2
GEO-351,352 World Regional Geography	8
GSCI-166 Introduction to Physical Geology	5
MATH-185 Precalculus	5
History elective	4-5
Total	54-55

Third year:

BEGE-274 New Testament Survey	4
BEGE-375 God and History	4
EDUC-300 Learner and the Learning Process	4
GSCI-264 Introduction to Astronomy	5
PHYS-172,173,174 College Physics I,II,III	15
Biology electives	10
Literature elective	5
Humanities elective	5
Physical education elective	1
Total	53

Fourth year:

BEGE-376 God and the Church	4
EDUC-316 Principles of Teaching	4
EDUC-317 Field Experience	4
EDUC-350 Reading in the Content Area	3
EDUC-450 Student Teaching	15
GSCI-440 Seminar	1
SCED-301 Teaching Science	2
(or 303 Content Methods	2)
SCED-321 Clinical Teaching	2
Biology elective	5
Chemistry or physics electives	12
Total	52

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Mathematics - Bachelor of Arts

A complete description of the General Education Requirements is found on page 31.

The bachelor of arts degree with a major in mathematics program provides coursework and training in advanced mathematics. Because of the general nature of this curriculum and opportunity to complement the major with electives from other fields of study, this curriculum provides excellent preparation for graduate study in areas that require good quantitative and/or analytical skills such as philosophy, business, and theology. This liberal arts program also prepares students for the wide variety of career opportunities that require a general bachelor of arts degree. The flexibility of the program enables students to select their mathematics and other electives to meet their educational or career goals.

Students should include courses in astronomy, chemistry, and physics as general electives.

Course requirements include sixty-one quarter hours including:

<i>Mathematics core requirements</i>	36
MATH-281,282,283 Analytic Geometry and Calculus I,II,III	15
MATH-303 Logic and Methods of Proof	5
PHYS-271,272,273 General Physics I,II,III	15
GSCI-440 Seminar	1
<i>Advanced mathematics requirement</i>	5
MATH-387 Differential Equations (or MATH-441 Euclidean & Noneuclidean Geometry)	5
<i>Electives (selected from MATH-300 and MATH-400 level courses including at least one course from each of the following sets)</i>	20

Set I:

MATH-355 Discrete Mathematics: Graph Theory	4
MATH-356 Discrete Mathematics: Combinatorics	4
MATH-384 Probability and Statistics	5

Set II:

MATH-360 Number Theory	5
MATH-394 Linear Algebra	5
MATH-461 Abstract Algebra I	4

Set III:

MATH-374 Complex Variables	5
MATH-441 Euclidean and Noneuclidean Geometry	5
MATH-445 Topology	5
MATH-471 Real Variables I	4

Mathematics Major (Bachelor of Arts) Curriculum Summary

Proficiency requirements	0-8
Other General Education requirements	70-90
Mathematics major requirements	61
Electives	41-61
Total (minimum, not including proficiency)	192

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

First Year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
COM-110 Fundamentals of Speech	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSS-100 Foundations of Social Science	5
MATH-281,282,283 Calculus I,II,III	15
PEF-199 P.A.C.L.	2
Physical education elective	1
Total	46

Second year:

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
HUM-140 Introduction to the Humanities	5
MATH-303 Logic and Methods of Proof	5
MATH-387 Differential Equations	5
(or MATH-441 Euclidean and Noneuclidean Geometry	5)
PHYS-271,272,273 General Physics I,II,III	15
History elective	5
Literature elective	5
Total	48

Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
BIO-100 Principles of Biology	5
Humanities elective	5
Mathematics electives	10
Social science elective	4
Electives	17
Total	49

Fourth year:

GSCI-440 Seminar	1
Mathematics electives	10
Electives	38
Total	49



Special computer software used by professor James Sellers helps students visualize and apply calculus principles.

Mathematics - Bachelor of Science

The bachelor of science degree with a major in mathematics program prepares students for graduate study in mathematics. The curriculum includes the course requirements prescribed by many of the leading graduate-level mathematics programs around the nation.

Students should include courses in astronomy, chemistry, and physics as general electives.

Course requirements involve seventy-six hours:

<i>Mathematics core requirements</i>	36
MATH-281,282,283 Analytic Geometry and Calculus I,II,III	15
MATH-303 Logic and Methods of Proof	5
PHYS-271,272,273 General Physics I,II,III	15
GSCI-440 Seminar	1

<i>Advanced mathematics requirement</i>	5
MATH-387 Differential Equations (or MATH-441 Euclidean & Noneuclidean Geometry)	5

<i>Electives (meeting the following criteria)</i>	35
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A. At least one course from each of the following sets must be included:

Set I:

MATH-355 Discrete Mathematics: Graph Theory	4
MATH-356 Discrete Mathematics: Combinatorics	4
MATH-384 Probability and Statistics	5

Set II:

MATH-360 Number Theory	5
MATH-394 Linear Algebra	5
MATH-461 Abstract Algebra I	4

Set III:

MATH-374 Complex Variables	5
MATH-441 Euclidean and Noneuclidean Geometry	5
MATH-445 Topology	5
MATH-471 Real Variables I	4

B. At least one of the following 8 quarter hour pairs must be completed:

Pair I:

MATH-355 Discrete Mathematics: Graph Theory	4
MATH-356 Discrete Mathematics: Combinatorics	4

Pair II:

MATH-384 Probability and Statistics	5
MATH-411 Applied Statistics	3

Pair III:

MATH-461 Abstract Algebra I	4
MATH-462 Abstract Algebra II	4

Pair IV:

MATH-471 Real Variables I	4
MATH-472 Real Variables II	4

C. Additional 300 and 400 level MATH electives not already taken.

Mathematics Major (Bachelor of Science) Curriculum Summary

Proficiency requirements	0-8
Other General Education requirements	70-90
Mathematics major requirements	76
Electives	26-46
Total (minimum, not including proficiency)	192

A complete description of the General Education Requirements is found on page 31.

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

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
COM-110 Fundamentals of Speech	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSS-100 Foundations of Social Science	5
MATH-281,282,283 Calculus I,II,III	15
PEF-199 P.A.C.L	2
Physical education electives	1
Total	46

Second year:

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
HUM-140 Introduction to the Humanities	5
MATH-303 Logic and Methods of Proof	5
MATH-387 Differential Equations	5
PHYS-271,272,273 General Physics I,II,III	15
History elective	5
Mathematics elective	5
Total	48

Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
BIO-100 Principles of Biology	5
Humanities elective	5
Literature elective	5
Mathematics electives	15
Social science elective	4
Electives	7
Total	49

Fourth year:

GSCI-440 Seminar	1
MATH-441 Euclidean and Non-Euclidean Geometry	5
Mathematics electives	10
Electives	33
Total	49

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Mathematics Education

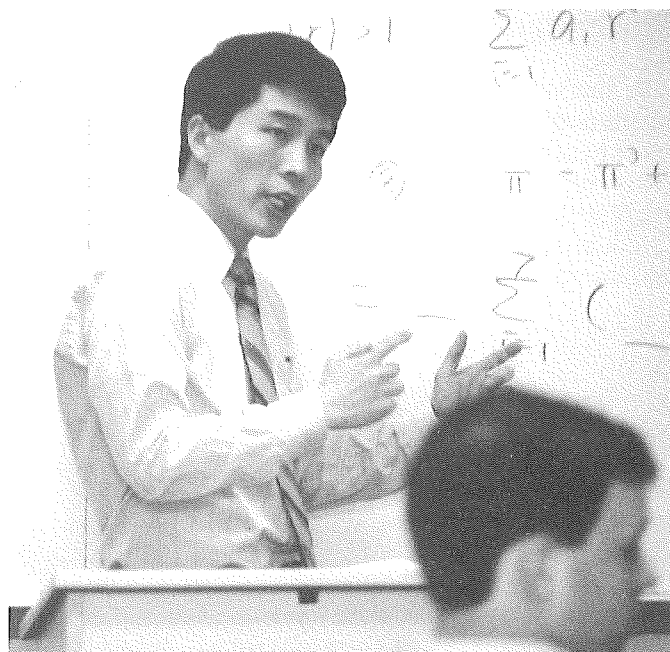
The **mathematics education major** prepares students to teach mathematics in grades 7-12 in public and Christian schools. Students completing these requirements will be certified by the State of Ohio and the Association of Christian Schools International. The Ohio teaching certificate, through reciprocal agreements, is automatically recognized by several states (a complete list of these states is located in the Education Department section of the catalog). Those planning to teach in states other than Ohio should consult with the Education Department to be aware of special requirements in states where reciprocity has not been established.

Course requirements involve sixty-four or sixty-five quarter hours of mathematics plus forty-seven quarter hours in secondary education.

<i>Mathematics core requirements</i>	36
MATH-281,282,283 Analytic Geometry and Calculus I,II,III	15
MATH-303 Logic and Methods of Proof	5
PHYS-271,272,273 General Physics I,II,III	15
GSCI-440 Seminar	1
<i>Advanced mathematics requirement</i>	5
MATH-441 Euclidean & Noneuclidean Geometry	5
<i>Electives (selected from MATH-300 and MATH-400 level courses including at least one course from each of the following sets)</i>	20
Set I:	
MATH-355 Discrete Mathematics: Graph Theory	4
MATH-356 Discrete Mathematics: Combinatorics	4
MATH-384 Probability and Statistics	5
Set II:	
MATH-360 Number Theory	5
MATH-394 Linear Algebra	5
MATH-461 Abstract Algebra I	4
Set III:	
MATH-374 Complex Variables	5
MATH-441 Euclidean and Noneuclidean Geometry	5
MATH-445 Topology	5
MATH-471 Real Variable I	4

Mathematics education majors must also take one computer elective selected from the following:

CIS-124 Computer Programming—BASIC	3
CIS-222 Structured Programming	4
CIS-221 FORTRAN Programming	4
CIS-420 Programming Languages	4



The mathematics professors represent a variety of emphases. Professor Dali Luo possesses an extensive background in probability theory.

Secondary education requirements include:

EDSP-102 Education of Exceptional Children	2
EDUC-100 Introduction to Education	2
EDUC-101 Field Experience	2
EDUC-201 Preliminary Student Involvement	0
EDUC-270 Audio-Visuals, secondary	1
EDUC-300 Learner and the Learning Process	4
*EDUC-301 Tutoring for Secondary Education	1
EDUC-302 Teaching Thinking Skills (secondary)	2
EDUC-316 Principles of Teaching	4
EDUC-317 Field Experience	4
EDUC-321 Philosophy of Education	3
EDUC-350 Reading in the Content Areas	3
Content Methods	2-3
Clinical Experiences	2
EDUC-450 Supervised Teaching and Seminar	15-16
*Tutoring is considered one of the necessary clinical hours and must be taken before Principles of Teaching.	

Mathematics Education Major Curriculum Summary:

Proficiency requirements	0-8
Other General Education requirements	70-90
Mathematics major requirements	64-65
Secondary education requirements	47
Computer elective	3-4
Electives	0-8
Total (minimum, not including proficiency)	192

Minors

The minors in the Department of Science and Mathematics are designed to provide non-majors with additional background in the biological sciences, mathematics, and the physical sciences.

Course requirements for the **biology minor** involve twenty-five quarter hours including:

BIO-114 Introduction to Biology	5
BIO-115 General Zoology	5
BIO-134 General Botany	5
Biology electives (200 level or above)	10

Course requirements for the **chemistry minor** involve twenty-four quarter hours including:

CHEM-151,152,153 General Chemistry I,II,III	12
CHEM-254 Quantitative Analysis	4
CHEM-357 Organic Chemistry I	5
Chemistry electives	3

Course requirements for the **mathematics minor** involve twenty-five quarter hours including:

MATH-281,282,283 Analytic Geometry and Calculus I,II,III	15
Mathematics electives (300 or 400 level courses)	10

Course requirements for the **physics minor** involve twenty-five quarter hours selected from:

PHYS-271,272,273 General Physics I,II,III	15
PHYS-376 Electricity and Magnetism	5
PHYS-378,379 Modern Physics I,II	10

Medical Technology

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: 24 hours of biology, 24 hours of chemistry, one mathematics course, and completion of all general education requirements.

The student may do the internship during his/her senior year, with 48 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 College.



Botany students have full color plant samples at their finger tips through CedarNet and a program developed by John Silvius, pictured here.

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Pre-health profession students gain excellent emergency medicine experience by serving with the Emergency Medical Service.

Preagriculture

The **preagriculture curriculum** is designed to satisfy the technical/nontechnical requirements of the first two years of a typical agriculture program. Students should research agricultural schools to which they wish to transfer at the junior level so that application materials can be completed in advance of deadlines. The program includes one year of general requirements and a second year of agricultural science or agricultural business.

Course requirements include core requirements and an emphasis in either agriculture business or agriculture science.

Core requirements include:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
BIO-114 Introduction to Biology	4
CHEM-151,152 General Chemistry I,II	8
COM-110 Fundamentals of Speech	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSCI-185 Precalculus	5
(or MATH-281 Analytic Geometry and Calculus I	5)
GSS-100 Foundations of Social Science	5
HUM-140 Introduction to the Humanities	5

The preagriculture student should confer with his advisor to select electives based upon:

- requirements of the school to which he will transfer after leaving Cedarville College;
- the specific agricultural program he wishes to enter.

The **agriculture business emphasis** prepares students for careers in the industry-business phases of agriculture.

Course requirements include:

Two courses (selected from)	10
ACCT-211 Principles of Accounting	5
BIO-115 General Zoology	5
BIO-134 General Botany	5
BIO-200 General Ecology	5
BIO-238 Introductory Microbiology	5
BIO-306 Genetics	10
BUS-211 Statistics	3
CIS-100 Introduction to Computers	2
ECON-231,332 Macro and Microeconomics	8
MGMT-350 Prin. of Organ. and Management	4
Humanities electives	10
Social science elective	5

The **agriculture science emphasis** prepares students for careers including agronomy, animal science, food science, and horticulture.

Course requirements include:

BIO-115 General Zoology	5
BIO-134 General Botany	5
CHEM-357,358,359 Organic Chemistry I,II,III	15
MATH-282 Analytic Geometry and Calculus II	5
MATH-384 Probability and Statistics	5
Biological science elective	5
(or CHEM-356 Biochemistry	5)
Humanities elective	5
Social science elective	5

Predental, Premedical, Preoptometric, Preosteopathic, and Preveterinary Medicine

Cedarville students have been quite successful in gaining admission to medical/professional schools. Though no specific major is required by these schools, students typically choose majors in biology or chemistry. The sequence of courses is arranged with the premedical advisor.

The following courses are usually required by the professional colleges:

Biology electives (selected from)	15
BIO-238 Introductory Microbiology	5
BIO-306 Genetics	5
BIO-313 Vertebrate Zoology	5
(or BIO-411 Vertebrate Embryology	5)
BIO-316,317 Human Structure and Function I,II	10
CHEM-356 Biochemistry	5
CHEM-357,358,359 Organic Chemistry I,II,III	15
MATH-281 Analytic Geometry and Calculus I	5
PHYS-172,173,174 College Physics I,II,III	15

Prepharmacy

The **prepharmacy curriculum** enables a student to obtain the first two years of the five year pharmacy program at Cedarville College. To insure that specific course requirements may be met through Cedarville courses, the student should select the pharmacy college he or she plans to attend as early as possible and obtain a catalog describing the specific course requirements.

The following courses should be included in the two years the prepharmacy student attends Cedarville:

BIO-115 General Zoology	5
BIO-134 General Botany	5
BIO-313 Vertebrate Zoology	5
CHEM-151,152,153 General Chemistry I,II,III	12
CHEM-357,358,359 Organic Chemistry I,II,III	15
COM-110 Fundamentals of Speech	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSS-100 Foundations of Social Science	5
MATH-281 Analytic Geometry and Calculus I	5

Prephysical Therapy

The **prephysical therapy program**, prepares students for admission to graduate-level schools of physical therapy. The courses in the curriculum generally satisfy the prerequisites prescribed by the A.P.T.A. accredited graduate schools offering masters degrees in physical therapy. Students should contact the specific schools they wish to attend to determine the exact prerequisites for those schools.

Physical therapy schools favor students who have gained practical experience in the field. Consequently, prephysical therapy students should obtain a minimum of 100 clock hours experience in assisting a licensed physical therapist prior to the senior year.

Competition for admission to physical therapy schools remains fierce. A minimum cumulative GPA of 3.0 is necessary to gain entrance into graduate schools, although 3.4 is more realistic. The prephysical therapy curriculum, which satisfies the requirements for a degree in biology, provides students with many health-related, post-graduate study options. These options include medical, dental, osteopathic, optometric, chiropractic, and graduate schools.

Course requirements include:

BIO-114 Introduction to Biology	5
BIO-115 General Zoology	5
BIO-134 General Botany	5
BIO-200 General Ecology	5
BIO-218 Pathophysiology	5
BIO-238 Microbiology	5
BIO-306 Genetics	5
BIO 316,317 Human Structure and Function I and II... 10	
BIO-411 Vertebrate Embryology	5



Prephysical therapy students receive relevant professional and academic advice from professor Evan Hellwig, a licensed physical therapist and certified athletic trainer.

**BUS-211,212 Statistics	6
CHEM-151,152,153 General Chemistry I,II,III	12
CHEM-356 Biochemistry	5
CHEM-357 Organic Chemistry I	5
CIS-100 Introduction to Computers	2
CIS-220 Computer Information Systems	3
GSCI-184 College Algebra	5
GSCI-185 Precalculus	5
GSCI-440 Seminar	1
PHYS-172,173,174 College Physics I,II,III	15
PYCH-160 General Psychology	5
PYCH-260 Human Development	4
PYCH-264 Psychology of Abnormal Behavior	5
**PYCH-261 Psychological Statistics is an acceptable alternative to BUS-211,212.	
Recommended electives include:	
COM-324 Interpersonal Communication	3
NSG-315 Nutrition of Individuals and Families	3
PEA-255 Basic Athletic Training	3
PEM-390 Physiology of Exercise	4
PEM-392 Kinesiology	3
PYCH-263 Psychology of Aging	5
*PYCH-330 Health Psychology	4
PYCH-372 Psychology of Personality	4
* strongly recommended	

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Course Descriptions

General Education

These courses are designed to meet the general education requirements for graduation (except where noted). They will not count toward any science or mathematics major; a student majoring in science or mathematics may take these courses only as electives. However, any course listed for science or mathematics major or minor may also count toward fulfilling general education requirements.

BIO-100 Principles of Biology--A,W,Sp,Su 5 hours

This course 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. Four lectures and one 2-hour laboratory per week. (Fee: \$35)

BIO-101 Environmental Biology--Su 5 hours

A course that emphasizes relationships among living organisms and the environment. Classroom discussion, frequent field studies, and student projects will teach students to integrate biological and Christian stewardship principles, and apply them toward understanding local community and global environmental problems. (Fee: \$35)

CHEM-154 Principles of Chemistry--A,Su 5 hours

For non-science majors, an introduction to atomic structure, ionic and covalent bonding, stoichiometry, kinetic theory, solutions and equilibria, nuclear chemistry; and nomenclature, structure, and reactions of organic compounds. Four lectures and one 2-hour lab per week. (Fee: \$35).

CHEM-158 Chemistry for Engineers--W 5 hours

A study of the states of matter, energy, and chemical change. Laboratory will stress quantitative skills. Four lectures and one 3-hour laboratory per week. Prerequisites: high school chemistry and Algebra II. (Fee: \$35).

GSCI-101 Basic Mathematics--A,W 4 hours

A course designed to ensure that the student has a mastery of the rudimentary concepts and basic skills of arithmetic and algebra. Topics covered include: addition, subtraction, multiplication, and division of whole numbers, integers, fractions, and decimals; percents; ratios and proportions; exponents; algebraic expressions; solutions of linear equations; word problems graphing. Three lectures and two 1-hour laboratories per week. May not be applied toward the 192 quarter hours needed for graduation nor toward the science and mathematics general education requirement.

GSCI-160 Principles of Earth and Space Science--Sp 5 hours

A survey of the sciences of geology, oceanography, meteorology, and astronomy. Will be studied from both evolutionary and creationist perspectives. About half of the course will deal with the basic fundamentals of geology considering the main rock types and geological activities of the earth. Also includes a brief overview of the processes and composition of the oceans and the atmosphere, and a consideration of the science of astronomy and the origin of the universe. Labs will include activities in each of these subjects. Field trips will be taken to learn about the local geology. Four lectures and one 2-hour laboratory per week. (Fee: \$35)

GSCI-161 Principles of Physical Science--W,Su 5 hours

An introductory study of the sciences of physics and chemistry with emphasis on basic concepts and principles as well as the development of foundational laws pertaining to these disciplines. Four lectures and one 2-hour laboratory per week. (Fee: \$35)

GSCI-162 Environmental Physical Science--A 5 hours

Physical and chemical principles underlying environmental topics of current and long-standing interest are studied: energy (nuclear and other kinds), food chemistry and nutrition, soaps, water and air quality, and others, depending on time and class interest. Four lectures and one 2-hour laboratory per week. (Fee: \$35)

GSCI-166 Introduction to Physical Geology--A,W 5 hours

An introduction to the study of the earth and its processes. Minerals, fossils, igneous, sedimentary, and metamorphic rocks will be studied. Earth processes such as volcanoes, earthquakes, weathering, streams, glaciers, plate movements, and mountain building will be examined both from evolutionary and creationist

perspectives with special emphasis on how the Flood has affected these processes and features. A field trip of southwest Ohio will examine the rocks, glacial features and fossils of the area. Four lectures and one 2-hour laboratory per week. (Fee: \$35)

GSCI-167 Historical Geology 5 hours

The earth's geological history from both creationist and evolutionary perspectives will be studied from its early history to the present. Topics of study include plate tectonics, biological evolution and the meaning of the fossil record, and the correlation and dating of rocks. Special emphasis will be placed on how the Flood has affected the earth's original creation and form. A field trip will study local fossils and their depositional history. Four weekly lectures and one weekly two hour lab. Prerequisite: GSCI-160 Principles of Earth and Space Science or GSCI-166 Introduction to Physical Geology. (Fee: \$35)

GSCI-180 Introduction to Mathematics--W,Su 5 hours

An introduction to mathematical concepts including inductive and deductive reasoning, logic, set theory, numeration systems, consumer mathematics, algebra, and statistics.

GSCI-184 College Algebra--A,W 5 hours

A general introduction to the methods of algebraic analysis. Includes, but may not be limited to, many of the topics of intermediate algebra: the field axioms, linear functions, inequalities, systems of equations, determinants, and quadratic functions. This course, in conjunction with GSCI-185, is designed to help prepare the student for calculus. Prerequisite: Two years of high school mathematics or permission of the instructor.

GSCI-185 Precalculus--Sp 5 hours

A general introduction to the principles of trigonometry and possibly some advanced topics in algebra. Coverage includes, but may not be limited to, trigonometric and circular functions, triangle problems, vectors. This course, in conjunction with GSCI-184, is designed to help prepare the student for calculus. Prerequisite: GSCI-184 College Algebra.

GSCI-190 Calculus for Business and Social Science--A,W,Sp 5 hours

An introduction to the concepts of differential and integral calculus for students of business and the social sciences. Numerous applications from these areas will be considered. Does not apply toward major in mathematics.

GSCI-210 Ethics of Human Reproduction--A 5 hours

This course is designed to deal with several topics pertaining to Human Sexuality: biology of human reproduction; conception control; infanticide; abortion; sexually transmitted diseases; biblical standards of sexuality; and teaching biblical sexuality to children and teens. Prerequisites: BIO-100 Principles of Biology and GSS-100 Foundations of Social Science.

BIO-216,217 Human Anatomy and Physiology I,II--A,W 5 hours each quarter

A survey of the principle systems of the human body with emphasis on both structure and function. BIO-216 includes a review of basic biology plus the skeletal, muscular, and nervous system. BIO-217 includes the endocrine, respiratory, cardiovascular, digestive, urinary, and reproduction system. Four lectures and one 2-hour laboratory per week. Prerequisite: BIO-100 Principles of Biology or equivalent. (Fee: \$35)

GSCI-220 Origins 5 hours

Two models for the origin of the universe, life, and man are developed. The two models, creation and evolution, are examined using available scientific evidence, and predictions based on each model are compared with the scientific evidence. Does not satisfy the biological science or physical science general education requirement. Four lectures and one one-hour laboratory per week. Prerequisite: BIO-100 Principles of Biology, GSCI-160 Principles of Earth and Space Science or equivalent.

GSCI-264 Introductory Astronomy--Sp 5 hours

Introductory study designed to explore concepts, principles, and laws pertaining to a God-created universe, with some emphasis on techniques used to obtain this knowledge. Four lectures per week, laboratory by arrangement including field observations at the college observatory. Prerequisite: High school geometry or permission of instructor. (Fee: \$35)

Departmental Courses

SCED-301 Teaching Science--A 2 hours

A course designed to introduce prospective secondary school science teachers to the curriculum, materials, and methods of classroom and laboratory science teaching.

SCED-302 Teaching Mathematics--A 2 hours

A course designed to introduce prospective secondary school mathematics teachers to the curriculum, materials, and methods of mathematics classroom teaching.

SCED-321 Clinical Teaching in Science or Mathematics--A,W,Sp 1-3 hours

A practical on-campus experience in which a student is assigned to assist a college instructor in classroom and laboratory teaching, evaluation, and related responsibilities. The student must complete forty (40) clock hours of clinical involvement in the teaching field for which certification is desired. Students desiring certification in an additional field must complete an additional one (1) credit hour, representing 20 clock hours of experience. Prerequisite: Admission to the teacher education program.

GSCI-440 Seminar--A,W,Sp 1 hour

Each student presents a paper from library or laboratory research. Approval of the topic by the student's advisor and seminar instructor must be obtained and the date of presentation set before enrolling in the course. 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. Required of all science and mathematics majors. Prerequisites: Senior classification and attendance of a minimum of 10 seminars during the sophomore and junior years.

Biological Science

BIO-114 Introduction to Biology--A 5 hours

Structure and function of plant and animal cells with emphasis on central concepts. This is the first biology course for majors; open to others with high school biology and chemistry background. Four lectures and one 2-hour laboratory per week. (Fee: \$35)

BIO-115 General Zoology--W 5 hours

A survey of the animal kingdom and of zoological principles, with an introduction to anatomy, physiology, and classification. Three lectures and two 2-hour laboratories per week. Prerequisite: BIO-114 Introduction to Biology. (Fee: \$35)

BIO-134 General Botany--A 5 hours

A survey of the vascular plants, bryophytes, algae, and fungi, with an introduction to their anatomy, physiology, taxonomy, and economic importance. Three lectures and two 2-hour laboratories per week. Prerequisite: BIO-114 Introduction to Biology. (Fee: \$35)

BIO-200 General Ecology--Sp 5 hours

A study of the interrelationships between living organisms and environment with emphasis upon environmental physiology, ecosystem and community ecology, and environmental stewardship. Laboratories feature field studies of representative aquatic and terrestrial ecosystems. Three (or four) lectures and one 3-hour (or 4-hour) lab, totaling 7 contact hours per week. Prerequisite: BIO-115 General Zoology and BIO-134 General Botany. (Fee: \$35)

BIO-218 Pathophysiology--Sp 5 hours

An analysis of the adaptations and alterations in human bodily function. Prerequisite: BIO-217 Human Anatomy and Physiology.

BIO-238 Introductory Microbiology--W 5 hours

A study of bacteria, fungi, and viruses and their relationship to man's economy and hygiene. Basic laboratory techniques are stressed. Three lectures and three 2-hour laboratories per week. Prerequisites: BIO-114 Introduction to Biology and CHEM-151 General Chemistry. (Fee: \$35)

BIO-300 Environmental Physiology 5 hours

Study of physiological mechanisms and adaptations by which plants, animals, and humans regulate life processes in response to light, temperature, moisture, and chemical substances in their environment. Three lectures and one 3-hour laboratory per week; contact hours include one 4-day weekend trip into the "north woods." Prerequisites: BIO-115 General Zoology, BIO-134 General Botany, CHEM-152 General Chemistry II. (Fee \$35)

BIO-306 Genetics--A 5 hours

A study of the principles of heredity and their application to plant, animal, and human life. Four lectures and one 3-hour laboratory per week. Prerequisite: BIO-114 Introduction to Biology and GSCI-185 Precalculus. (Fee: \$35)

BIO-312 Invertebrate Zoology--Sp 5 hours

A survey of representative invertebrates to include taxonomic, morphological, and evolutionary relationships. Three lectures and two 3-hour laboratories per week. Prerequisite: BIO-115 General Zoology. (Fee: \$35) (even years)

BIO-313 Vertebrate Zoology--Sp 5 hours

A study of the various vertebrate groups, with emphasis upon vertebrate taxonomy and anatomy. Three lectures and two 3-hour laboratories per week. Prerequisite: BIO-115 General Zoology. (Fee: \$35) (even years)

BIO-316,317 Human Structure and Function I, II--W,Sp 5 hours each quarter

The study of structure and function of the human body with special emphasis on body systems. Four lectures and one 3-hour laboratory per week. Prerequisite: BIO-115 General Zoology. (Fee: \$35) (odd years)

BIO-334 Plant Taxonomy and Ecology--Sp 5 hours

Field botany students learn to identify vascular plant species, collect and preserve specimens, and associate them with their respective taxonomic families and biotic communities. Two lectures and two 3-hour laboratories per week; some extended field trips. Prerequisite: BIO-134 General Botany. (Fee: \$35)

BIO-336 Plant Physiology--W 5 hours

A study of the unique physiological processes of plant life: plant and soil-water relationships, mineral nutrition, photosynthesis, and mechanisms that enable plants to coordinate their growth and development in response to environmental stimuli. Four lectures and one 3-hour laboratory per week. Prerequisites: BIO-134 General Botany and CHEM-357 Organic Chemistry I. (Fee: \$35) (odd years)

BIO-340 through BIO-349 5 hours each

Includes a selection of 5-hour courses taught at AuSable Institute by faculty of various evangelical Christian colleges:

- BIOA/GEOL/GEOG 301 Land Resources
- BIOA-302 Limnology (Water Resources)
- BIOA/GEOG 303 Natural Resources Practicum
- BIOA-311 Field Botany
- BIOA-312 Insect Biology and Ecology
- BIOA-321 Animal Ecology
- BIOA-322 Aquatic Biology
- BIOA-340 Topics in Environmental Biology
- BIOA-342 Fish Biology and Ecology
- BIOA/GEO-471 Conservation Biology
- BIOA-482 Restoration Ecology
- CHEM-332 Environmental Chemistry

Each course emphasizes Christian stewardship of natural resources as its integrative theme. Students should register the desired number of hours under BIO-340, Topics on Environmental Biology. Selected course titles will appear on the transcript when the work is completed. Choice can be made from four course sequences which, if completed in addition to requirements for the biology major, will earn certification in one of the following areas designed to prepare students for employment or graduate study: (1) Interpretive Naturalist, (2) Water Resource Analyst, (3) Land Resource Analyst, and (4) Environmental Analyst. Prerequisite: BIO-101 Environmental Biology.

BIO-400 Independent Study in Biology 1-4 hours

Independent experimental study involving a particular biological phenomenon. Submission and approval of a research proposal must precede registration. Prerequisite: Major in biology and permission of advisor. (Fee: \$5/hour)

BIO-405 Environmental Biology Internship 4-10 hours

An opportunity to participate in an internship experience, arranged in conjunction with local or state agencies. Provides experience in such activities as nature interpretation, plant and animal cataloging, habitat restoration, ecological studies, and administration of environmentally related projects of community concern. Prerequisite: BIO-200 General Ecology, CHEM-357 Organic Chemistry.

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BIO-407 Molecular Biology of the Cell--A 5 hours

A study of the cell with special emphasis on molecular organization and function. Four lectures and one 3-hour laboratory per week. Prerequisites: BIO-114 Introduction to Biology, CHEM-357 Organic Chemistry. (Fee: \$35) (even years)

BIO-411 Vertebrate Embryology--W 5 hours

A study of the initiation and development of tissues and organs with emphasis on embryonic development of vertebrates, including the human. Three lectures and two 3-hour laboratories per week. Prerequisite: BIO-115 General Zoology. (Fee: \$35) (odd years)

BIO-432 Immunology 5 hours

A study of the human immune system including description of basic immunological phenomena, biochemistry of antibodies and antigens, the cellular and genetic components of the immune response, and immunopathology. Four lectures and one 3-hour laboratory per week. Prerequisites: BIO-114 Introduction to Biology and BIO-238 Introductory Microbiology. (Fee: \$35)

BIO-436 Radiation Biology--A 4 hours

The effects of ionizing radiation on biological systems and methods of using radioisotopes. Introductory material on radiation physics and dosimetry is included. The laboratory exercises introduce the student to basic instrumentation and techniques in the safe handling of radioisotopes. The course may be applied to either a biology or a chemistry major. Three lectures and two 2-hour laboratories per week. Prerequisite: One year of chemistry, one course in biology, one course in mathematics. (Fee: \$35) (odd years)

BIO-450 Topics in Biology 2-5 hours

Topics of special interest by the biology faculty from the areas of modern biology. May be repeated once for credit.

Chemistry

CHEM-151,152,153 General Chemistry I,II,III--A,W,Sp 4 hours each quarter

Fundamental facts and principles of chemistry. Quantitative techniques are stressed in the laboratory during the first two quarters. Three lectures and one 3-hour laboratory per week. Prerequisite: CHEM-154 Principles of Chemistry or high school chemistry. (Fee: \$35)

CHEM-254 Quantitative Analysis--W 4 hours

A study of the theory, techniques, and calculations involved in gravimetric and volumetric analysis of inorganic substances. Three lectures and one 3-hour laboratory per week. Prerequisite: CHEM-152 General Chemistry. (Fee: \$35)

CHEM-255 Analytical Chemistry--Sp 5 hours

A continuation of Quantitative Analysis, with emphasis on instrumental analysis. Three lectures and two 3-hour laboratories per week. Prerequisite: CHEM-254 Quantitative Analysis. (Fee: \$35)

CHEM-356 Biochemistry--Sp 5 hours

A study of carbohydrates, lipids, proteins, and nucleoproteins and their relationship to life and metabolic processes. Four lectures and one 3-hour laboratory per week. Prerequisite: CHEM-357 Organic Chemistry. (Fee: \$35)

CHEM-357,358,359 Organic Chemistry I,II,III 5 hours each quarter

A detailed study of the general principles, aliphatics, aromatics, natural products, etc. Emphasis is placed on mechanism. Fall and winter quarters: four lectures and one 3-hour laboratory per week. Spring quarter: three lectures and two 3-hour laboratories per week. Prerequisite: CHEM-152 General Chemistry. (Fee: \$35)

CHEM-450 Independent Study in Chemistry 1-4 hours

Independent experimental study of some chemical phenomenon. (Fee: \$5/hour)

CHEM-451,452,453 Physical Chemistry I,II,III 4 hours autumn and winter quarters 3 hours spring quarter

A study of the properties of chemical systems, including the fundamentals of thermodynamics, chemical dynamics, and quantum mechanics. Autumn and Winter quarters: three lectures and one 3-hour laboratory per week. Spring quarter: three lectures. Prerequisite: CHEM-254 Quantitative Analysis or PHYS-273 General Physics. (Fee: \$35) (odd years)

CHEM-454 Advanced Inorganic Chemistry 5 hours

Modern concepts of the structure of matter, nature of the chemical bond, complex ions, and the periodic properties of the elements. Prerequisite: CHEM-254 Quantitative Analysis. (even years)

CHEM-455 Topics in Chemistry 2-5 hours

Topics of special interest are selected by the chemistry faculty from the areas of modern chemistry. May be repeated once for credit. Prerequisite: CHEM-153 General Chemistry or equivalent and consent of instructor.

Mathematics

MATH-281 Analytic Geometry and Calculus I--A,W 5 hours

The first course of an integrated three course sequence covering the basic concepts of analytic geometry and single variable calculus. Includes limits, derivatives, applications of the derivative, and single variable integration with introduction to numeric integration techniques. Prerequisite: GSCI-185 Precalculus or equivalent and consent of the instructor.

MATH-282 Analytic Geometry and Calculus II--W,Sp 5 hours

The second course of an integrated three course sequence covering the basic concepts of analytic geometry and single variable calculus. Includes calculus based development of the logarithmic and exponential functions along with other transcendental functions, applications of integration, additional integration techniques, sequences, series, and expansion of functions into Taylor and power series. Prerequisite: MATH-281 Analytic Geometry and Calculus I.

MATH-283 Analytic Geometry and Calculus III--A,Sp 5 hours

The third course of an integrated three course sequence covering the basic concepts of analytic geometry and single variable calculus. Includes conic sections, plane curves, parametric equations, polar coordinates, vectors and geometry in 3-space, vectors, and vector calculus. Prerequisite: MATH-282 Analytic Geometry and Calculus II.

MATH-303 Logic and Methods of Proof--A 5 hours

An introduction to formal mathematical logic, with an emphasis on preparing students of mathematics 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. Prerequisite MATH-282 Analytic Geometry and Calculus II.

MATH-355 Discrete Mathematics: Graph Theory--W 4 hours

An 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. Forms an 8-hour sequence with MATH 356 Discrete Mathematics; Combinatorics. Prerequisite: MATH 303 Logic and Methods of Proof. (even years)

MATH-356 Discrete Mathematics: Combinatorics--Sp 4 hours

A study of combinatorial reasoning, focusing on enumeration. Intended to develop a proficiency in methods of enumerative problem solving. Topics will be chosen from areas such as counting methods for arrangements and selections, permutations and combinations, generating functions, partitions, and recurrence relations. Prerequisite: MATH 303 Logic and Methods of Proof. (even years)

MATH-360 Number Theory--A 5 hours

An 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 such as d , s , and j , and related topics. Concrete examples will illustrate the concepts and abstract reasoning will be used to develop the theories considered in the courses. Prerequisite: MATH-303 Logic and Methods of Proof. (odd years)

MATH-374 Complex Variables 5 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-388 Advanced Calculus I.

MATH-384 Probability and Statistics--W **5 hours**

Probability models; random variables; binomial, T, chi square and F distributions; sample spaces; estimation; and hypotheses tests are studied from theoretical and practical viewpoints. Prerequisite: MATH-283 Analytic Geometry and Calculus III.

MATH-387 Differential Equations--A **5 hours**

A study of the standard techniques employed in the solution of differential equations with emphasis on those arising from physical problems. Prerequisite: MATH-283 Analytic Geometry and Calculus III.

MATH-388 Advanced Calculus I--A,W **5 hours each quarter**

Introduction to differential calculus of several variables, multiple integrals, vector analysis, line integrals, surface integrals, and an abbreviated introduction to linear algebra, matrix algebra, and determinants. Prerequisite: MATH-283 Analytic Geometry and Calculus III.

MATH-389 Advanced Calculus II--Sp **5 hours**

Topics in function theory, vector analysis, differential calculus of several variables, vector differential calculus, integral calculus of several variables, vector integral calculus, and infinite series. Prerequisite: MATH-388 Advanced Calculus I.

MATH-394 Linear Algebra--Sp **5 hours**

An introduction to the algebra of linear equations, including determinants, matrices, vector spaces, eigenvalues, and eigenvectors, and linear mapping. Prerequisite: MATH-282 Analytic Geometry and Calculus II; MATH-303 Logic and Methods of Proof.

MATH-411 Applied Statistics **3 hours**

Topics chosen from the following; regression analysis, queuing theory, inventory theory, decision analysis, simulation, quality control, and reliability theory. Prerequisite: MATH-384 Probability and Statistics.

MATH-441 Euclidean and Non-Euclidean Geometries--A **5 hours**

A rigorous treatment of the foundations of Euclidean geometry and an introduction to hyperbolic geometry, with emphasis on its Euclidean models. Prerequisite: MATH 303 Logic and Methods of Proof. (odd years)

MATH-445 Topology--A **5 hours**

An introduction to elementary point set topology with emphasis on illustrating how the familiar concepts of closed and open intervals, continuity of functions, and various geometrical properties have been generalized from classical mathematics. Topics covered include: metric spaces, topological space theory, separation axioms, covering properties, compactness, connectedness, metrizability, and complete metric spaces. Prerequisite: MATH-303 Logic and Methods of Proof. (even years)

MATH-461,462 Abstract Algebra I,II--A,W **4 hours**

An introduction to sets and logic, and the development of algebraic systems, groups, rings, integral domains, fields, and Galois theory. Prerequisite: MATH 303 Logic and Methods of Proof. (I=even years; II=odd years)

MATH-471,472 Real Variables I,II--A,W **4 hours**

An introduction to the real number system's algebraic, order, completeness, and cardinality properties; the topology of Cartesian spaces R^n and functions including continuity and uniform continuity, connectedness, convexity, compactness, various types of convergence, limits, differentiability, Riemann and Lebesgue integration, measurability, and L_p spaces. Prerequisite: MATH-389 Advanced Calculus II. (I=odd years, II=even years)

MATH-480 Topics in Mathematics **2-5 hours**

Various topics offered as interest may demand. Intended for majors in mathematics. Some typical topics: complex variables, matrix algebra, vector analysis, numerical analysis, introduction to computer programming, partial differential equations, and mathematical modeling. Prerequisite: Permission of instructor.

MATH-490 Independent Study in Mathematics **1-4 hours**

An opportunity to perform 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 and permission of research advisor.

Physics

PHYS-172 College Physics I--A **5 hours**

Basic concepts of mechanics, including kinematics, motion in two dimensions, force and motion, work and energy, momentum, circular motion and gravitation. Four lectures and one 2-hour laboratory per week. Prerequisites: High school trigonometry or GSCI-185 Precalculus or equivalent. (Fee: \$35).

PHYS-173 College Physics II--W **5 hours**

Fluids, liquids and gases, heat and thermodynamics, waves, electricity and magnetism and AC circuits. Four lectures and one 2-hour laboratory per week. Prerequisite: PHYS-172 College Physics I or equivalent. (Fee: \$35).

PHYS-174 College Physics III--Sp **5 hours**

Geometrical and physical optics, relativity theory, quantum theory and other topics from modern physics. Four lectures and one 2-hour laboratory per week. Prerequisite: PHYS-173 College Physics II or equivalent. (Fee: \$35).

PHYS-271 General Physics I--A,Sp **5 hours**

Basic concepts of linear and rotational motion in three dimensions, oscillatory motion, gravitation, and fluid mechanics. Four lectures and one two-hour laboratory each week. Prerequisites: MATH-281,282,283 Analytic Geometry and Calculus I,II,III. MATH-283 may be coenrolled with permission of instructor. (Fee: \$35)

PHYS-272 General Physics II--A,W **5 hours**

Basic concepts in wave motion, thermodynamics and electricity, and magnetism. Four lectures and one two hour laboratory each week. Prerequisites: MATH-281,282,283 Analytic Geometry and Calculus I,II,III, PHYS-271 General Physics I. (Fee: \$35)

PHYS-273 General Physics III--W,Sp **5 hours**

Intermediate concepts in electricity and magnetism, light, optics, and a basic introduction to modern physics. Four lectures and one two-hour laboratory each week. Prerequisites: MATH-281,282,283 Analytical Geometry and Calculus I,II,III; PHYS-272 General Physics II. (Fee: \$35)

PHYS-376 Electricity and Magnetism--Sp **5 hours**

Basic concepts of electricity and magnetism. AC and DC circuits, electromagnetism, basic electronic circuits. Prerequisites: PHYS-272 General Physics II; MATH-388 Advanced Calculus.

PHYS-378,379 Modern Physics I,II--A,W **5 hours each quarter**

An extension of basic concepts of modern physics learned in General Physics. Topics include structure of matter, electricity and light, kinetic theory, x-rays, nuclear reactions, atomic and nuclear structure, radioactivity. Prerequisite: PHYS-273 General Physics. (even years)



The Science Department features biologists with a variety of specialties who teach in their respective fields. Terry Phipps, pictured here, teaches courses in zoology.

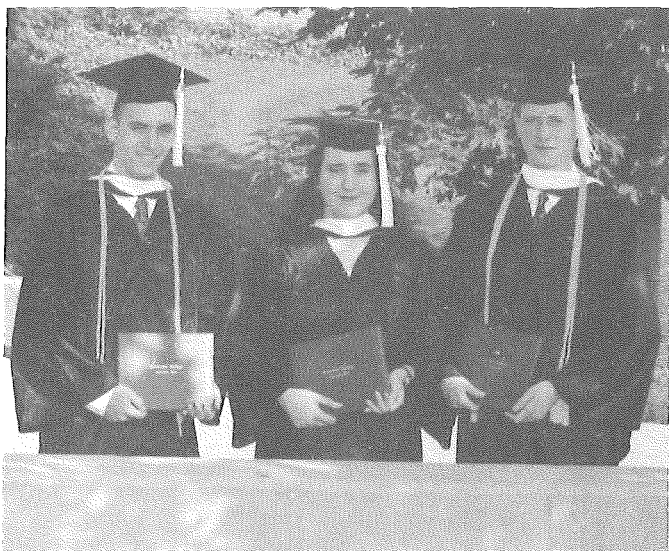
174 Social Sciences and History

Purpose

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

This department seeks to:

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



Cedarville graduates attend excellent law schools around the nation. 1995 graduates, John Cooley, Amy Clark, and Adam Wilson are preparing for the legal profession at Washington and Lee University, Indiana University, and Wake Forest University, respectively.

Faculty

Murray Murdoch, *Chairman*: Professor of History. *Education*: B.Th., Baptist Bible Seminary, 1960; M.A., Northwestern University, 1962; History Faculty Fellow, Northwestern University, 1963; Ph.D., Northwestern University, 1971. At Cedarville since 1965.

Joseph Halsey, Associate Professor of Political Science. *Education*: B.A., Morehead State University, 1965; M.Ed., Xavier University, 1969; Ph.D., University of Cincinnati, 1990. At Cedarville since 1970.

Donald Hanna, Assistant Professor of Criminal Justice. *Education*: B.A., Indiana University, 1959. M.A., University of Illinois, 1969. Senior Police Management Institute, 1988. At Cedarville since 1995.

Nelson Henning, Assistant 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.

James McGoldrick, Professor of History. *Education*: B.S., Temple University, 1961; M.A., Temple University, 1964; graduate study, Dropsie University, 1962; St. Joseph's College, 1968; University of Arkansas, 1969; Ph.D., West Virginia University, 1974; postdoctoral study, University of Scranton, 1977; Pennsylvania State University, summer, 1981; St. Joseph's University, summer, 1982; University of Houston, summer, 1984. At Cedarville since 1973.

Allan Monroe, Professor 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 since 1965.

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.

Donald Rickard, Vice President for Student Services; Adjunct Instructor of Social Science. *Education*: B.A., Central State College, 1963; M.A., Eastern Michigan University, 1968. At Cedarville since 1970.

Carl Ruby, Associate Dean of Students; Adjunct Instructor of Social Sciences. *Education*: B.A., Cedarville College, 1983; M.A., Wheaton College, 1988; Graduate study, Ohio University, 1992. At Cedarville since 1988.

Kevin Sims, Associate Professor of Political Science. *Education*: B.A., Cedarville College, 1974; M.A., University of Northern Iowa, 1978; Ph.D., The Claremont Graduate School, 1991. At Cedarville since 1990.

Cynthia Sutter-Tkel, Assistant Professor of Social Work. Social Work Program Director. *Education*: B.S. and B.S.W., Philadelphia College of Bible, 1985; M.S.W., Temple University, 1987. At Cedarville since 1991.

Robert Wiggins, Associate Professor of Criminal Justice and Public Administration. *Education*: B.Th., Baptist Bible College and Seminary, 1964; B.A., Olivet Nazarene College, 1966; graduate study, Temple University, 1966-68; M.S., The American University, 1970; Ph.D., The University of Texas at Arlington, 1987; postdoctoral study, The University of Texas at Dallas, 1987-88. At Cedarville since 1992.

Ralph Gale, Associate Professor Emeritus of History. *Education*: Graduate, Moody Bible Institute, 1937; Th.B., Northern Baptist Theological Seminary, 1943; M.A., Loyola University, 1961; graduate study, Loyola University, 1960-61; Miami University, 1962. At Cedarville from 1961 to 1973.

Cleveland McDonald, Professor Emeritus of Sociology. *Education*: Graduate, Moody Bible Institute, 1945; B.A., James Millikin University, 1948; graduate study, Oklahoma State University, 1948; M.Litt., University of Pittsburgh, 1956; Ph.D., The Ohio State University, 1966. At Cedarville from 1957 to 1976.

Programs of Study

The Department of Social Sciences and History offers the following programs of study:

Majors in:

- American studies
- Criminal justice
- History
- History and political science
- International studies
- Political science
- Prelaw
- Public administration
- Social science
- Social work
- Sociology

Minors in:

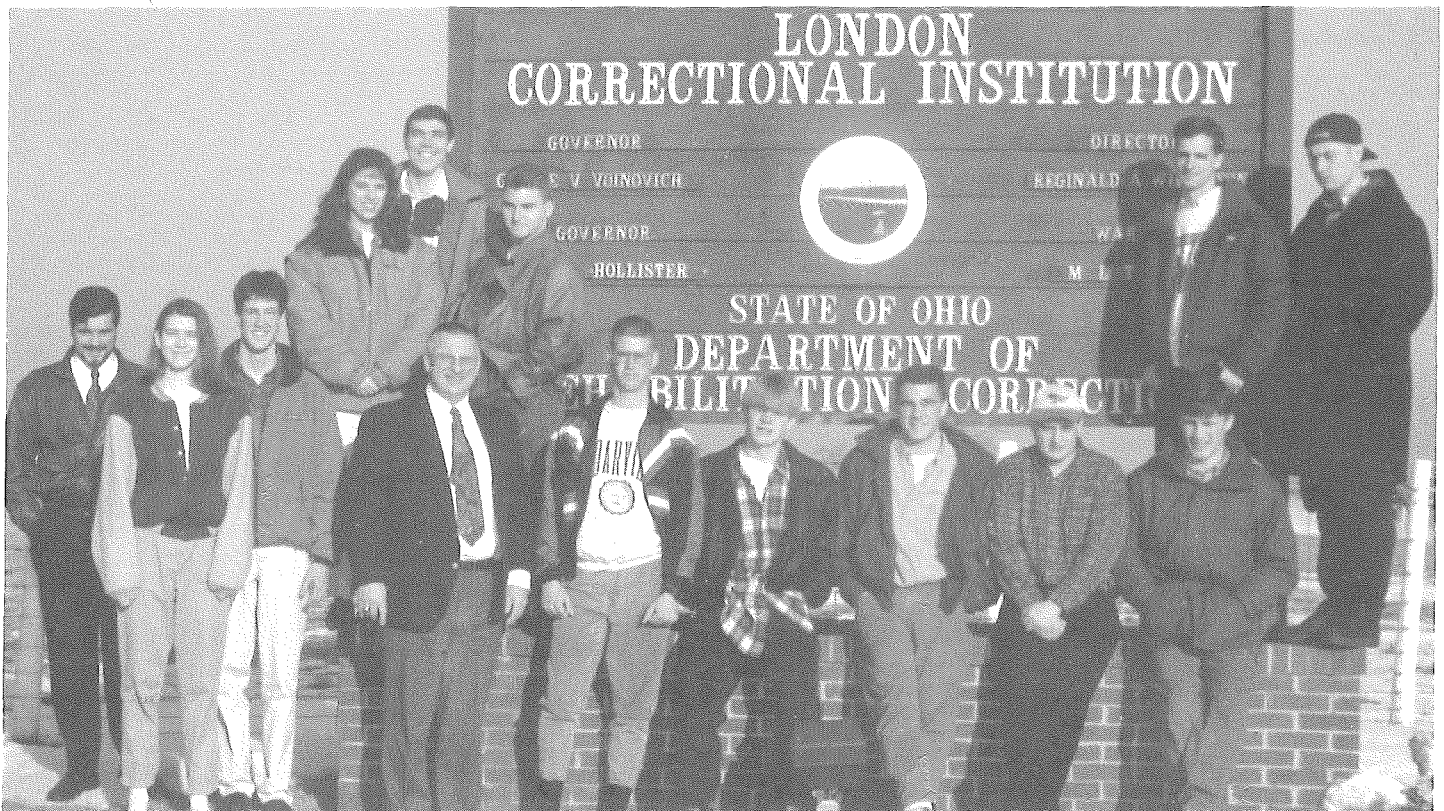
- Criminal justice
- History
- Political science
- Public administration
- Sociology

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
- child protection service worker
- college professor
- community developer
- government worker
- historical researcher
- medical social worker
- minister
- parole agent
- politician
- police officer
- prison caseworker
- prison manager (warden)
- probation officer
- public administrator
- senior citizen center outreach worker
- social worker
- teacher



Professor Robert Wiggins takes criminal justice majors on field trips to help them understand the realities of the criminal justice system.

176 Social Sciences and History

American Studies

The **American studies major** is designed to provide students with an understanding of American culture.

Course requirements involve sixty-two quarter hours:

GEO-250 Introduction to Geography	2
GEO-351 World Regional Geography - West	4
HIST-111,112 United States History	10
HIST-311 Early American History	5
(or HIST-312 History of Recent Cont. Amer.)	4
LIT-337 Contemporary American Literature	5
POLS-261 American National Government	5
POLS-365 International Relations	5
(or HIST-405 Great Power Diplomacy.....)	4
HIST-469 History of Modern Pol. Thought	3

The interdisciplinary electives should be selected from two of the following discipline areas. These electives should be chosen in consultation with the American studies advisor and should reflect the interest of the student.

Biblical Education

BEPH-220 Introduction to Philosophy	5
BEPH-222 History of Modern Philosophy	5
BEPH-226 Religion and Culture	5
BEPH-423 Contemporary Philosophy	5

Business Administration

ECON-233,234 Micro and Macroeconomics	8
ECON-313 Government and Business	4
ECON-331 Money and Banking	4
ECON-334 History of Economic Thought	4
MRKT-360 Principles of Marketing	4
MRKT-366 Principles of Advertising	4

Communication Arts

RTV-130 Introduction to Broadcasting	3
RTV-232 Theories of Mass Media	5
RTV-432 Mass Media Law and Regulation	4

Language and Literature

ENG-221 Principles of Journalism	5
ENG-223 Advanced Composition	3
ENG-322 Advanced Journalism	3
LIT-339 American Romanticism	5
LIT-336 American Realism and Naturalism	5
LIT-342 American Novel	5

Music

HLMU-333 Music History III--Romantic/Modern	4
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Psychology

PYCH-160 General Psychology	5
PYCH-369 Social Psychology	5

Social Sciences and History

All courses which stress an American context.

American Studies Major Curriculum Summary

Proficiency requirements	0-8
Other General Education requirements	58-80
American studies major requirements	62
Electives	49-71
Total (minimum, not including proficiency)	192

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in American Studies

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSS-100 Foundations of Social Science	5
HIST-111 United States History before 1865	5
HIST-112 United States History after 1865	5
HUM-140 Introduction to the Humanities	5
PEF-199 P.A.C.L.	2
Math elective	5
Physical education elective	1
Total	46

Second year:

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
COM-110 Fundamentals of Speech	5
GEO-250 Introduction to Geography	2
GEO-351 World Regional Geography - West	4
POLS-261 American National Government	5
Biology/science electives	10
Literature elective	5
Electives	10
Total	49

Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
LIT-337 Contemporary American Literature	5
Interdisciplinary electives	37
Total	50

Fourth year:

HIST-400 Research in American History	5
HIST/POLS-469 History of Modern Pol. Thought	3
Interdisciplinary electives	40-41
Total	49

Criminal Justice

The **criminal justice major** prepares students for careers in the criminal justice system. The FBI and similar organizations favor individuals with strong background in accounting. Students who wish to pursue careers with these organizations should concentrate their electives in accounting.

Course requirements involve ninety quarter hours. Students must take all fifty-two hours of core courses and a minimum of thirty-eight hours of criminal justice electives.

<i>Core requirements</i>	52
CRJU-131 Introduction to Criminal Justice	5
CRJU-330 Corrections	5
CRJU-333 Constitutional Law for Criminal Justice	5
CRJU-367 Research Methodology	3
CRJU-368 Data Analysis	5
CRJU-420 Police Administration	5
CRJU-433 Contemporary Issues in Criminal Justice	5
CRJU-460 Seminar in Criminal Justice I	1
CRJU-461 Seminar in Criminal Justice II	4
POLS-261 American National Government	5
(or POLS-262 American State & Local Government ..)	5
PUAD-161 Introduction to Public Administration	4
SOC-230 Principles of Sociology	5

<i>Criminal justice electives (selected from the following)</i>	38
ACCT-211 Principles of Accounting	5
ACCT-212 Principles of Accounting	5
*BEPH-220 Introduction to Philosophy	5
*BEPH-225 Ethics	5
CRJU-220 Criminology	5
CRJU-231 Juvenile Delinquency	5
CRJU-232 Casework	5
CRJU-332 Criminal Investigation	5
CRJU-335 Criminal Law	5
CRJU-339 Criminal Evidence	5
CRJU-340 Criminal Procedure	5
CRJU-341 Civil Liability for Criminal Justice Personnel	5
CRJU-496 Independent Study in Criminal Justice	1-4
**GSS-499 Social Science Internship	5-15
MGMT-350 Principles of Organization and Management	4
MGMT-355 Organizational Behavior	4
POLS-261 American National Government	5
POLS-262 American State and Local Government	5
POLS-362 The Supreme Court	4
PYCH-160 General Psychology	5
PYCH-264 Psychology of Abnormal Behavior	5

*satisfies a General Education requirement

**students completing a certified police academy with a grade of "C" or better may count 10 hours toward internship credit

Criminal Justice Major Curriculum Summary

Proficiency requirements	0-8
Other General Education requirements	70-92
Criminal justice major require. (incl. electives)	90-92
General electives	34
Total (minimum, not including proficiency)	192

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in Criminal Justice

<i>First year:</i>	
BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
COM-110 Fundamentals of Speech	5
CRJU-131 Introduction to Criminal Justice	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSS-100 Foundations of Social Science	5
HUM-140 Introduction to the Humanities	5
PEF-199 P.A.C.L.	2
Criminal justice elective	5
Mathematics elective	5
Total	50

<i>Second year:</i>	
BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
BEPH-220 Introduction to Philosophy	5
CRJU-333 Constitutional Law for Criminal Justice	5
POLS-261 American National Government	5
(or POLS-262 American State and Local Government ..)	5
PUAD-161 Introduction to Public Administration	4
SOC-230 Principles of Sociology	5
Biological science elective	5
History elective	5
Literature elective	5
Total	48

<i>Third year:</i>	
BEGE-375 God and History	4
BEGE-376 God and the Church	4
CRJU-330 Corrections	5
CRJU-367 Research Methodology	3
CRJU-368 Data Analysis	5
Criminal justice electives	20
General electives	5
Physical science elective	5
Total	51

<i>Taken summer of junior year:</i>	
GSS-499 Social Science Internship	5

<i>Fourth year:</i>	
CRJU-420 Police Administration	5
CRJU-433 Contemporary Issues in Criminal Justice	5
CRJU-460 Seminar in Criminal Justice I	1
CRJU-461 Seminar in Criminal Justice II	4
Criminal justice elective	16
Physical education elective	1
General electives	13
Total	45

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History

Course requirements involve forty-eight hours including:

HIST-111,112 United States History	10
HIST-201,202,203 History of Civilization	1
HIST-300 Introduction to Historiography	4
HIST-400,401, or 402 Research in History	5
Elective hours in history	17
(must include one non-western course)	

History Major Curriculum Summary

Proficiency requirements	0-8
Other General Education requirements	71-93
History major requirements	48
Electives	61-73
Total (minimum, not including proficiency)	192

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in History

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
COM-110 Fundamentals of Speech	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSS-100 Foundations of Social Science	5
HIST-111,112 United States History	10
HUM-140 Introduction to the Humanities	5
PEF-199 P.A.C.L.	2
Physical education elective	1
Total	46

Second year:

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
BEPH-220 Introduction to Philosophy	5
GSCI-160 Introduction to Physical Science	5
HIST-201,202,203 History of Civilization	12
Biology elective	5
Literature elective	5
Mathematics elective	5
Social science elective	4
Total	49

Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
HIST-300 Introduction to Historiography	4
Non-Western history elective	4
History electives	8
Electives	24
Total	48

Fourth year:

HIST-400,401, or 402 Research in History	5
History elective	5
Electives	39
Total	49

History and Political Science

Course requirements involve sixty-eight hours including:

HIST-111,112 United States History	10
HIST-300 Introduction to Historiography	4
(or POLS-367 Research Methodology and POLS-368 Data Analysis	8)
HIST-201,202,203 History of Civilization	12
<i>Non-Western history elective (selected from)</i>	4
HIST-304 British Empire and the Developing Non-Western World	4
(or HIST-308 Russia and the Soviet Union	4)
HIST-311 Early American History	5
(or HIST-312 Hist. of Recent and Cont. Amer.	4)
HIST-321 Hist. and Pol. Devel. of E. Asia	4
HIST-322 Middle East: History and Politics	4
HIST-468 History of Ancient Pol. Thought	3
(or HIST-469 Hist. of Mod. Pol. Thought	3)
HIST-400,401,402 Research in History	5
(or POLS-459 Political Science Seminar I	2
and POLS-460 Political Science Seminar II	3)
POLS-261 American National Government	5
POLS-365 International Relations	5
POLS-461 Political Dynamics	3
PUAD-161 Introduction to Public Administration	4
Electives in political science	0-2

History/Political Science Major Curriculum Summary

Proficiency requirements	0-8
Other General Education requirements	71-93
History-political science major requirements	72
Electives	29-51
Total (minimum, not including proficiency)	192

International Studies

The **international studies major** utilizes courses from several academic disciplines to prepare students for a variety of internationally-focused careers, including international relations. The major is described in detail in the Interdisciplinary Studies section of the catalog.

Political Science

Course requirements involve forty-eight quarter hours including:

POLS-261 American National Government	5
POLS-362 The Supreme Court	4
POLS-365 International Relations	5
POLS-367 Research Methodology	3
POLS-368 Data Analysis	5
POLS-405 Great Power Diplo. in Modern World	4
POLS-459 Political Science Seminar I	2
POLS-460 Political Science Seminar II	3
POLS-469 History of Modern Political Thought	3
PUAD-161 Intro. to Public Administration	4
Elective hours in political science	10

Additional required cognate:

HIST-111,112 United States History	10
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Political Science Major Curriculum Summary

Proficiency requirements	0-8
Other General Education requirements	71-93
Political science requirements	58
Electives	51-63
Total (minimum, not including proficiency)	192



Matt Cutler, a 1994 political science graduate, used his previous summer internship experience to obtain a full-time position. He currently serves as district coordinator and press liason for state senator John Pridria of Michigan.

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in Political Science

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
BIO-100 Principles of Biology	5
COM-110 Fundamentals of Speech	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSS-100 Foundations of Social Science	5
HIST-111,112 United States History	10
PEF-199 P.A.C.L.	2
PUAD-161 Introduction to Public Administration	4
Total	49

Second year:

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
BEPH-220 Introduction to Philosophy	5
GSCI-160 Introduction to Physical Science	5
GSCI-184 College Algebra	5
HUM-140 Introduction to the Humanities	5
POLS-261 American National Government	5
POLS-365 International Relations	5
POLS-367 Research Methodology	3
POLS-368 Data Analysis	5
Literature elective	5
Physical education elective	1
Total	52

Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
POLS-362 The Supreme Court	4
POLS-405 Great Power Diplomacy in Modern World	4
Political science electives	10
Electives	21
Total	47

Fourth Year:

POLS-459 Political Science Seminar I	2
POLS-460 Political Science Seminar II	3
POLS-469 History of Modern Political Thought	3
Political science elective	3
Electives	35
Total	46

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Prelaw

The **prelaw major** prepares students for law school. The curriculum is designed to provide the course content and to develop the skills needed to perform well on the law school admissions test (LSAT) and law school.

Course requirements involve seventy to seventy-two quarter hours including:

BEPH-220 Introduction to Philosophy	5
BEPH-322 Logic	5
ECON-233 Microeconomics	4
HIST-111,112 United States History	10
POLS-261 American National Government	5
POLS-367 Research Methodology	3
POLS-368 Data Analysis	5
POLS-463 American Constitutional Law	5
POLS-470 Prelaw Seminar	5
PYCH-160 General Psychology	5
SOC-230 Principles of Sociology	5

One course from each of the following categories:

Communication Arts:

COM-210 Advanced Public Speaking	5
COM-312 Argumentation and Debate	5

Language and Literature:

PWRT-311 Style and Mechanics for Writers	4
--	---

Two courses from the following category:

Social Sciences and History:

PUAD-161 Introduction to Public Administration	4
POLS-362 The Supreme Court	4
Social Science elective	3



Alumni chapel speakers like DeMaurice Smith, Assistant U.S. District Attorney in Washington, D.C., inform students of the challenges and rewards associated with government service. After graduating from Cedarville in 1985 in political science, De earned his law degree at the University of Virginia School of Law.

Required cognates:

ACCT-211,212 Principles of Accounting	10
GSCI-184 College Algebra	5
HIST-201,202,203 History of Civilization	12

Prelaw Major Curriculum Summary

Proficiency requirements	0-8
Other General Education requirements	66-88
Prelaw major requirements (including cognates)	99
Electives (consultation with advisor)	0-27
Total (minimum, not including proficiency)	192

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in Prelaw

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
BEGE-273 Old Testament Survey	4
BIO-100 Principles of Biology	5
COM-110 Fundamentals of Speech	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSS-100 Foundations of Social Science	5
HIST-111,112 United States History	10
PEF-199 P.A.C.L.	2
Total	49

Second year:

ACCT-101 Principles of Accounting I	5
ACCT-102 Principles of Accounting II	5
BEPH-220 Introduction to Philosophy	5
PWRT-311 Style and Mechanics for Writers	4
GSCI-184 College Algebra	5
HIST-201,202,203 History of Civilization	12
POLS-261 American National Government	5
POLS-367 Research Methodology	3
POLS-368 Data Analysis	5
SOC-230 Principles of Sociology	5
Total	54

Third year:

BEGE-273 New Testament Survey	4
BEGE-375 God and History	4
BEGE-376 God and the Church	4
BEPH-322 Logic	5
ECON-233 Microeconomics	4
HUM-140 Introduction to the Humanities	5
Physical education elective	1
World literature elective	5
Electives	15
Total	47

Fourth year:

POLS-463 American Constitutional Law	5
POLS-470 Prelaw Seminar	5
POLS- History of Political Thought elective	5
PYCH-160 General Psychology	5
Communication arts elective	4-5
Physical science elective	5
Political science electives	8-9
Electives	8-10
Total	45-49

Public Administration

The **public administration major** prepares students for careers in government. An interdisciplinary major, the curriculum involves courses in political science, economics, and business.

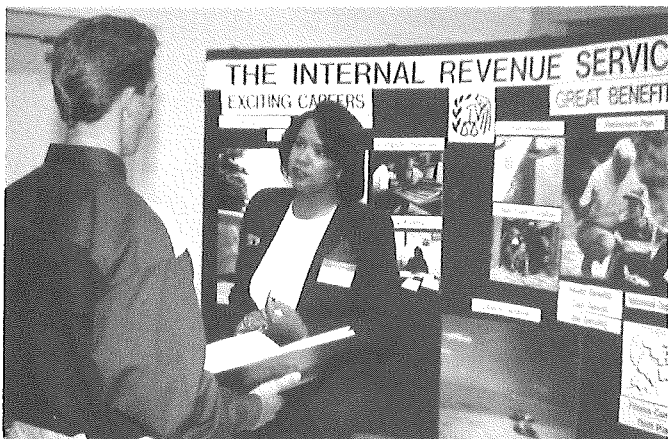
Course requirements involve a minimum of ninety quarter hours, including seventy-three to eighty-five quarter hours of core requirements and nineteen quarter hours of business requirements.

Core requirements: 73-85

ECON-233 Microeconomics	4
ECON-234 Macroeconomics	4
ECON-313 Government and Business	4
ECON-339 Public Finance	4
GSS-499 Social Science Internship	5-15
MGMT-350 Principles of Organization and Management	4
MGMT-353 Human Resources Management	4
POLS-261 American National Government	5
POLS-262 American State & Local Government	5
POLS-362 The Supreme Court	4
PUAD-161 Introduction to Public Administration	4
PUAD-210 Public Budgeting	5
PUAD-367 Research Methodology	3
PUAD-368 Data Analysis	5
PUAD-369 Public Policy	4
PUAD-460 Seminar in Public Administration I	1
PUAD-461 Seminar in Public Administration II	4
PUAD-464 Strategies for Public Administration	4

Business electives (selected from): 19

BUS-211,212 Statistics	6
CIS-220 Computer Information Systems	3
COM-200 Persuasive Theory	5
COM-312 Argumentation and Debate	4
COM-323 Organizational Communication	3
COM-325 Interviewing	3
MATH-384 Probability and Statistics	5



Dozens of employers visit the campus each year to talk to Cedarville students about future careers.

PYCH-364 Industrial Psychology	4
PYCH-369 Social Psychology	5
PUAD-497 Independent Study in Public Administration	1-4

Public Administration Major Curriculum Summary

Proficiency requirements	0-8
Other General Education requirements	77-97
Public administration major requirements	90
Electives	5-25
Total (minimum, not including proficiency)	192

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in Public Administration

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
CIS-200 Computer Information Systems	3
ECON-233 Microeconomics	4
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSS-100 Foundations of Social Science	5
HIST-111,112 United States History	10
PEF-199 P.A.C.L.	2
PUAD-161 Introduction to Public Administration	4
Physical education elective	1
Elective	5
Total	52

Second year:

BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
COM-110 Fundamentals of Speech	5
ECON-234 Macroeconomics	4
HUM-140 Introduction to the Humanities	5
MGMT-350 Principles of Organization and Management	4
POLS-261 American National Government	5
PUAD-210 Public Budgeting	5
PUAD-367 Research Methodology	3
PUAD-368 Data Analysis	5
Biology elective	5
Literature elective	5
Total	54

Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
ECON-313 Government and Business	4
GSS-499 Internship	5-15
MGMT-353 Human Resources Management	4
POLS-262 American State and Local Government	5
Humanities elective	5
Physical science/mathematics elective	10
Electives	8
Total	49-59

Fourth year:

ECON-339 Public Finance	4
POLS-362 The Supreme Court	4
PUAD-369 Public Policy	4
PUAD-460 Seminar in Public Administration I	1
PUAD-461 Seminar in Public Administration II	4
PUAD-464 Strategies for Public Administration	4
Electives	24
Total	45

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Social Science

Course requirements involve seventy quarter hours including:

ECON-233,234 Micro and Macroeconomics	8
GEO-250 Introduction to Geography	2
GEO-351 World Regional Geography - West	4
GEO-352 World Regional Geography - East	4
GSS-100 Foundations of Social Science	5
HIST-111,112 United States History	10
HIST-201,202,203 History of Civilization	12
POLS-261 American National Government	5
SOC-230 Principles of Sociology	5

Additional hours must be taken in one of the following areas of concentration:

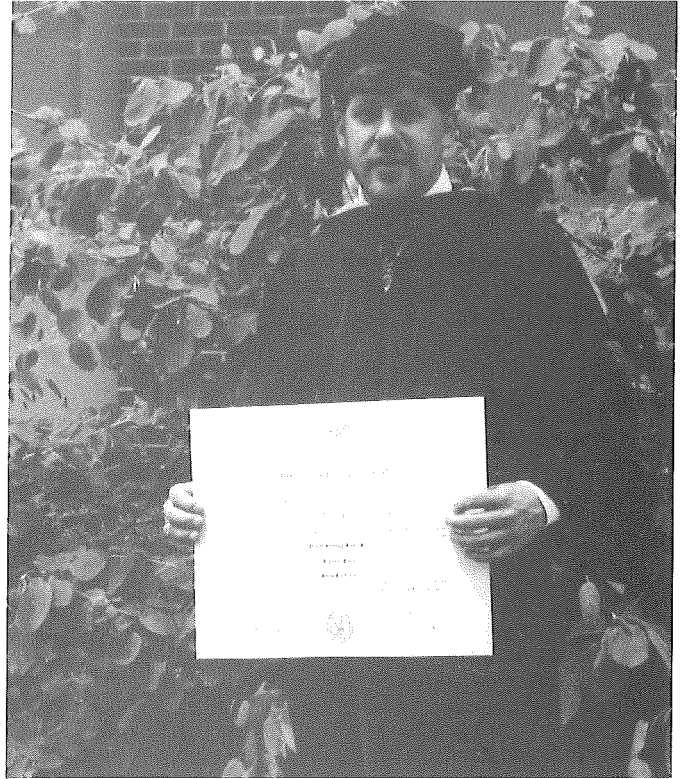
History: complete fifteen quarter hours including HIST-300 Historiography.

Sociology: complete fifteen hours including SOC-367 Research Methodology and SOC-368 Data Analysis.

Political Science: complete fifteen quarter hours including POLS-367 Research Methodology and POLS-368 Data Analysis.

Social Science Major Curriculum Summary

Proficiency requirements	0-8
Other General Education requirements	66-88
Social science major requirements	70
Electives	44-56
Total (minimum, not including proficiency)	192



Prelaw graduates excel at top-ranked law schools. Kelly Fath, a 1991 political science graduate, earned his law degree at Georgetown University.

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in Social Science

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
BIO-100 Principles of Biology	5
COM-110 Fundamentals of Speech	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSS-100 Foundations of Social Science	5
HIST-111,112 United States History	10
PEF-199 P.A.C.L.	2
Total	45

Second year:

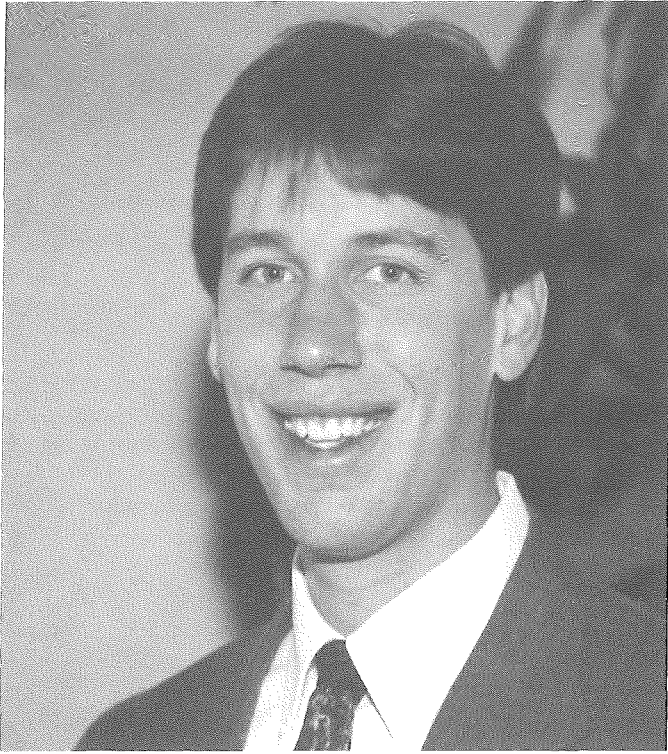
BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
GSCI-160 Introduction to Physical Science	5
GSCI-184 College Algebra	5
HUM-140 Introduction to the Humanities	5
POLS-261 American National Government	5
GEO-250 Introduction to Geography	2
HIST-201,202,203 History of Civilization	12
Literature elective	5
Physical education elective	1
Elective	5
Total	53-55

Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
ECON-233 Microeconomics	4
ECON-234 Macroeconomics	4
GEO-351 World Regional Geography-West	4
GEO-352 World Regional Geography-East	4
SOC-230 Principles of Sociology	5
Social science electives	11-13
Elective	5
Total	45-47

Fourth year:

Social science electives	25
Electives	24
Total	49



Cedarville graduates gain admission to top law schools around the country. Tim Vanderburg, a 1993 prelaw graduate, attends the top-ranked University of Michigan Law School.

Sociology

Course requirements involve forty-eight quarter hours including:

ANTH-180 Cultural Anthropology	5
SOC-230 Principles of Sociology	5
SOC-232 Casework	5
SOC-367 Research Methodology	3
SOC-368 Data Analysis	5
SOC-375 Social Movements	4
SOC-372 Social Theory	4
SOC-441 Research in Sociology	5
Elective hours in sociology	14

Additional required cognates:

PYCH-160 General Psychology	5
PYCH-369 Social Psychology	5

Sociology Major Curriculum Summary

Proficiency requirements	0-8
Other General Education requirements	75-97
Sociology major requirements	58
Electives	37-59
Total (minimum, not including proficiency)	192

A complete description of the General Education Requirements is found on page 31.

Suggested Four-Year Curriculum for a Major in Sociology

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
BEGE-273 Old Testament Survey	4
COM-110 Fundamentals of Speech	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSS-100 Foundations of Social Science	5
HUM-140 Introduction to the Humanities	5
PEF-199 P.A.C.L.	2
Physical education elective	1
Science elective	5
Elective	3
Total	48

Second year:

BEGE-274 New Testament Survey	4
BEGE-375 God and History	4
BEGE-376 God and the Church	4
SOC-230 Principles of Sociology	5
SOC-232 Casework	5
SOC-367 Research Methodology	3
SOC-368 Data Analysis	5
Humanities elective	5
Literature elective	5
Science elective	5
Electives	5
Total	50

Third year:

ANTH-180 Cultural Anthropology	5
PYCH-160 General Psychology	5
PYCH-369 Social Psychology	5
SOC-372 Social Theory	4
SOC-375 Social Movements	4
Science/mathematics elective	5
Sociology elective	5
Electives	15
Total	48

Fourth year:

SOC-441 Research in Sociology	5
Sociology electives	10
Electives	33
Total	48

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Social Work

The **social work major** prepares students for future ministries 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.

Social work graduates are qualified to take the examination administered by the Counselor and Social Work Board of the State of Ohio. Upon passing the examination they are considered licensed social workers in the state of Ohio.

Purpose

The social work program prepares Christian social workers to practice in a wide variety of private and public, sectarian and non-sectarian social service settings with an emphasis on meeting people's spiritual, social, emotional, and physical needs.

Objectives

- To prepare Christian social work students as generalist practitioners with appropriate values, knowledge, skills, and Christian compassion to begin as entry level professionals, practicing social work with individuals, families, groups, churches, and communities and to meet the standards of social work certification in the state of Ohio.
- To equip Christian social work students with a solid educational foundation including values, knowledge, and skills to qualify for enrollment in graduate level social work education.
- To provide Christian social work students an opportunity to develop Christian character and professional maturity and adopt a balanced Christian world-life view and have it manifest itself in daily living, church ministry, community outreach, and professional activities.

Admission to the Social Work Program

Admission to the social work major occurs during the winter quarter of the sophomore year. Freshman and sophomores interested in social work should declare their intent to major in social work and meet with an appropriate social work advisor to insure that courses are taken in the proper sequence.

Admissions Requirements

1. Complete at least 50 quarter hours of the General Education requirements, including the necessary social work course prerequisites (see the suggested 4-year curriculum).
2. Complete SWK-233 Introduction to Social Work with a "C" or better before the fall quarter of the junior year.
3. Be interviewed by the social work faculty.

Admissions Procedure

1. Complete and submit an application for admission to the social work program to the social work program director. Application materials include an autobiographical statement detailing interest in social work.
2. Submit letters of recommendation from a pastor, an employer, and a teacher or adult friend.
3. Submit a completed Summary of Prerequisites form.
4. Submit an unofficial transcript (available from the Academic Records Office) of courses and grades which includes coursework completed through the fall quarter of the sophomore year.
5. Schedule and complete an interview with the social work faculty.

Field Experience

Students are responsible for transportation to and from field experience agencies. Field experience placements will be within a 50-mile radius of the campus.

The course fee of \$30 for all social work practice courses covers the cost of required liability insurance.

Course Requirements

Course requirements involve eighty-two quarter hours including:

PYCH-160 General Psychology	5
PYCH-367 Group Dynamics	5
SOC-230 Principles of Sociology	5
SWK-233 Introduction to Social Work	5
SWK-301 Human Behavior & Social Environment I	4
SWK-302 Human Behavior & Social Environment II	4
SWK-311 Social Welfare Policy I	4
SWK-312 Social Welfare Policy II	4
SWK-321 Social Work Practice I	5
SWK-322 Social Work Practice II	5
SWK-343 Junior Seminar I	1
SWK-344 Junior Field Experience I	2
SWK-345 Junior Seminar II	1
SWK-346 Junior Field Experience II	2
SWK-367 Research Methodology	3
SWK-368 Data Analysis	5
SWK-421 Social Work Practice III	5
SWK-422 Social Work Practice IV	5

A complete description of the General Education Requirements is found on page 31.

SWK-451 Senior Seminar I	2
SWK-452 Senior Seminar II	5
SWK-456 Senior Field Experience I	5
SWK-457 Senior Field Experience II	5
<i>Additional required cognates:</i>	
*ANTH-180 Cultural Anthropology	5
*BIO-100 Principles of Biology	5
CIS-100 Introduction to Computers	2
(or CIS-220 Computer Information Systems	3)
ECON-233 Microeconomics	4
*HIST-375 Social Movements	4
POLS-262 American State and Local Government	5
*satisfies General Education requirements	

Recommended electives:

COM-314 Intercultural Communications	4
COM-315 Women in America	3
SPAN-171,172,173 Elementary Spanish	15

Social Work Major Curriculum Summary

Proficiency requirements	0-8
Other General Education requirements	62-82
Social work major requirements	82
Additional required cognates	25-26
Electives	2-23
Total (minimum, not including proficiency)	192

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.



Students from Epsilon Alpha Pi, an organization for social work majors, coordinate projects like the clothes drive pictured here to help the needy.

Suggested Four-Year Curriculum for a Major in Social Work

First year:

BEGE-171 The Christian Life	4
BEGE-172 Introduction to Bible Study	4
BIO-100 Principles of Biology	5
COM-110 Fundamentals of Speech	5
ENG-110 English Composition I	5
ENG-140 English Composition II	5
GSS-100 Foundations of Social Science	5
HUM-140 Introduction to Humanities	5
PEF-199 P.A.C.L.	2
PSYCH-160 General Psychology	5
Physical education elective	1
Total	46

Second year:

ANTH-180 Cultural Anthropology	5
BEGE-273 Old Testament Survey	4
BEGE-274 New Testament Survey	4
CIS-100 Introduction to Computers	2
(or CIS-220 Computer Information Systems	3)
ECON-233 Microeconomics	4
POLS-262 American State and Local Government	5
SOC-230 Principles of Sociology	5
HIST-375 Social Movements	4
SWK-233 Introduction to Social Work	5
Literature elective	5
Science elective	5
Total	48-49

Third year:

BEGE-375 God and History	4
BEGE-376 God and the Church	4
SWK-301 Human Behavior and Social Environment I	4
SWK-302 Human Behavior and Social Environment II	4
SWK-311 Social Welfare Policy I	4
SWK-312 Social Welfare Policy II	4
SWK-321 Social Work Practice I	5
SWK-322 Social Work Practice II	5
SWK-343 Junior Seminar I	1
SWK-344 Junior Field Experience I	2
SWK-345 Junior Seminar II	1
SWK-346 Junior Field Experience II	2
PSYCH-367 Group Dynamics	5
Science or mathematics elective	5
Total	50

Fourth year:

COM-314 Intercultural Communications (elective)	4
COM-315 Women in America (elective)	3
SWK-367 Research Methodology	3
SWK-368 Data Analysis	5
SWK-421 Social Work Practice III	5
SWK-422 Social Work Practice IV	5
SWK-451 Senior Seminar I	2
SWK-452 Senior Seminar II	2
SWK-456 Senior Field Experience I	5
SWK-457 Senior Field Experience II	5
Electives	11
Total	48

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Minors

Course requirements for a minor in **criminal justice** involves twenty-six quarter hours, including:

CRJU-131 Introduction to Criminal Justice	5
Electives in criminal justice (with a CRJU prefix)	21

Course requirements for a **minor in history** involve twenty-seven quarter hours, including:

HIST-111,112 United States History	10
HIST-201,202,203 History of Civilization	12
Electives in history	5

Course requirements for a **minor in political science** involve twenty-six quarter hours, including:

POLS-261 American National Government	5
PUAD-161 Introduction to Public Administration	4
Electives in political science	17

Course requirements for a **minor in public administration** involve twenty-seven quarter hours, including:

ECON-339 Public Finance	4
MGMT-350 Principles of Organization and Management	4
POLS-261 American National Government	5
PUAD-161 Introduction to Public Administration	4
PUAD-369 Public Policy	4
Electives (with PUAD or POLS prefix)	6

Course requirements for a **minor in sociology** involve twenty-seven quarter hours, including:

SOC-230 Principles of Sociology	5
Electives in sociology	22

Course Descriptions

Departmental Courses

GSS-100 Foundations of Social Science--A,W,Sp,Su 5 hours

This course is designed to provide the student with a knowledge of some of the basic concepts in sociology, economics, and political science from a Christian-theistic perspective. Required of all students for general education.

GSS-284 Concepts of Chemical Dependency 5 hours

Designed to investigate the concept of chemical dependency. Course emphasis is on the various drugs of abuse, methods of assessment, intervention and treatment. Prerequisites: PSYCH-160 General Psychology, SOC-230 Principles of Sociology, or permission of instructor.

GSS-380 Methods of Teaching Social Science--A 3 hours

In this course an emphasis is placed upon the identification, examination, and implementation of the methods and materials which are unique to the teaching of social sciences within both the secular and the Christian secondary school setting.

GSS-381,382,383 Clinical Teaching in the Social Sciences--A,W,Sp 1 hour each

A practical, on-campus, 1 credit hour experience in which a student is assigned to assist a college instructor in the preparation of tests and quizzes, in teaching, grading, research, and other teacher responsibilities. A student will be expected to participate for 22 clock hours for each quarter hour of credit. Prerequisite: Admission to the teacher education program. A student may arrange to do any one of the following with the director of this experience in his or her discipline:

1. One 22-hour experience for three different quarters
2. A 44-hour experience for one quarter and a 22-hour experience for another quarter
3. A 66-hour experience for one quarter

HIST-490 through PUAD-497 Independent Study in Social Science 1-4 hours

Prerequisite: Permission of the instructor

ANTH-494 Anthropology
CRJU-496 Criminal Justice
GEO-492 Geography
HIST-490 History
POLS-493 Political Science
PUAD-497 Public Administration
SOC-491 Sociology
SWK-495 Social Work

GSS-499 Social Science/History Internship 5-15 hours

Majors who participate in government service, historical research, public administration, or other approved activities related to the social sciences may earn up to 15 hours credit. The approval of the department is necessary for any proposed internship.

Anthropology

ANTH-180 Cultural Anthropology--W 5 hours

An analysis of the concept and its importance for the study of man; an examination of various cultures of the world as they relate to technological, economic, social, political, and religious aspects of these cultures.

Criminal Justice

CRJU-131 Introduction to Criminal Justice--A 5 hours

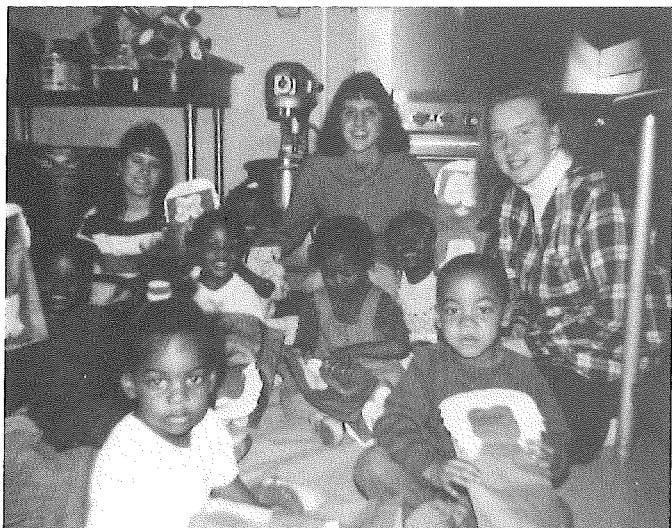
An introduction to the discipline and institutions of criminal justice in the United States. Law enforcement, the courts, and corrections will be recognized in an open systems sense as interacting and interdependent institutions. On occasion timely issues will be considered as they relate to criminal justice agencies.

CRJU-220 Criminology--W 5 hours

See course description for SOC-220 Criminology.

CRJU-231 Juvenile Delinquency--Sp 5 hours

A study and assessment of causal theory and problems of correction and prevention of delinquency.



The extensive Christian ministries available give students avenues to learn while reaching out to others. Cedarville students are pictured here at the Pacific Garden Mission in inner city Chicago.



Professor Robert Wiggins brings over twenty years of experience in the federal criminal justice system to the classroom.

CRJU-232 Casework--Sp 5 hours

See course description for SWK-232 Casework.

CRJU-330 Corrections--Sp 5 hours

An in-depth consideration of probation, penology, and community supervision sectors of the field of criminal justice. (odd years)

CRJU-332 Criminal Investigation--W 5 hours

Focuses on the criminal investigative methods, identification procedures, report writing, crime scene search, general categories of physical evidence, evidence collection and preservation, scientific methods of evidence analysis, tracing, sources of information, interviews, and interrogations. Prerequisite: CRJU-131 Introduction to Criminal Justice.

CRJU-333 Constitutional Law for Criminal Justice--W 5 hours

An intense examination of the leading Supreme Court decisions affecting criminal justice personnel and law enforcement agencies.

CRJU-335 Criminal Law--W 5 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 specific criminal offenses. Prerequisite: CRJU-131 Introduction to Criminal Justice.

CRJU-336 Judicial Process--Sp 3 hours

See course description POLS-336 The Judicial Process.

CRJU-339 Criminal Evidence--Sp 5 hours

Focuses on the evidence process applicable to criminal case preparation and presentation in court. Consideration will be given to 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-335 Criminal Law.

CRJU-340 Criminal Procedure--Sp 5 hours

Pertains to procedural law which governs the enforcement of substantive criminal law. An 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 also given to various forms of criminal charges and judgments by the court. Prerequisite: CRJU-335 Criminal Law.

CRJU-341 Civil Liability for Criminal Justice Personnel--Sp 5 hours

Focuses on civil liability issues with a review of pertinent U.S. Supreme Court decisions. Emphasis on federal civil liability, tort liability and damages, acts of negligent employment, qualified immunity, seizures and civil liability, special duty to protect, liability for policy or custom, and preventive measures. Prerequisite: CRJU-340 Criminal Procedure.

CRJU-367 Research Methodology--A 3 hours

See course description for POLS-367 Research Methodology.

CRJU-368 Data Analysis--W 5 hours

See course description for POLS-368 Data Analysis.

CRJU-420 Police Administration--A 5 hours

Focuses on contemporary policing issues and related administrative matters from the perspective of executive leadership. Emphasis is placed on management of organizational resources regarding basic line and staff functions. Consideration is also given to contemporary issues of drug and gang control, community-oriented policing, and federal legislative mandates. Prerequisite: CRJU-131 Introduction to Criminal Justice.

CRJU-433 Contemporary Issues in Criminal Justice--W 5 hours

An analysis of key issues currently influencing the criminal justice system.

CRJU-460 Seminar in Criminal Justice I--A,W 1 hour

CRJU-461 Seminar in Criminal Justice II--Sp 4 hours

A capstone, two-quarter experience for criminal justice majors which involves researching issues related to the administration of justice in the United States from a normative and/or empirical perspective. Findings research in CRJU 460 are presented and discussed in CRJU 461.

Geography

GEO-250 Introduction to Geography--A,Su, ea. year; W, even years 2 hours

An introductory study of the discipline of geography and the major elements of the natural environment, with particular emphasis on their effect upon man and his activities.

GEO-321 Historical and Political Development of East Asia--A 4 hours

See course description for HIST-321 Historical and Political Development of East Asia.

GEO-322 The Middle East: History and Politics--Sp 4 hours

See course description for HIST-322 the Middle East: History and Politics.

GEO-351 World Regional Geography--Western Hemisphere --W,Su 4 hours

A 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. Prerequisite: GEO-250 Introduction to Geography or permission of instructor.

GEO-352 World Regional Geography--Eastern Hemisphere--Sp 4 hours

A survey of various regions in the eastern hemisphere with an emphasis on the cultural, economic, and political developments in relation to the geographical environment. Prerequisite: GEO-250 Introduction to Geography or permission of instructor.

GEO-354 Geography of Africa--W 3 hours

Investigates the historical legacies which help explain the diversity of the African continent. Physical, socio-cultural, and economic patterns will also be studied to further understand Africa's significant diversity. Prerequisite: GEO-250 Introduction to Geography. (odd years)

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History

HIST-111,112 United States History--A,W 5 hours each quarter

An 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-201,202,203 History of Civilization--A,W,Sp 4 hours each quarter

This survey of human history begins at the advent of civilized life in the ancient Near East and continues into the twentieth century. It presents the religious, social, political, and intellectual development of mankind from a Christian interpretive point of view. The three quarters may be taken in any sequence.

HIST-300 Introduction to Historiography--W, odd yrs.; Sp, even yrs. 4 hours

An 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-301 Renaissance Europe--W, odd yrs; Sp, even yrs 4 hours

A study of the cultural and intellectual movements of Italy and Northern Europe in the period 1300-1600. Emphasis is given to noted artists and scholars and their contributions to the modern world-and-life view. (even years)

HIST-302 Reformation Europe--Sp 4 hours

A concentrated investigation of the birth and early growth of Protestantism within the political context of Europe in the period 1500-1650. The role of the major reformers and their contributions to the development of the Christian faith are emphasized.

HIST-304 The British Empire and the Developing Non-Western World--A 4 hours

A study of Great Britain in her role as the disseminator of Christian values and libertarian ideals and institutions to Africa, India, and Australia. (even years)

HIST-306 History of Modern Germany--A 4 hours

A composite examination of the course of German unification under Prussia and Germany's rise to the status of a great world power. Emphasis is given to nineteenth and twentieth century political and intellectual movements. (odd years)

HIST-308 Russia and the Soviet Union in the Twentieth Century--Sp 4 hours

An in-depth analysis of the former Soviet Union and its impact upon the contemporary world. The nature of Russian Communism is examined in detail. (odd years)

HIST-311 Early American History--A 5 hours

An analysis of the development of American civilization from colonization to 1820. Political, religious, social, economic, and cultural institutions will be examined. Prerequisite: HIST-111 United States History or permission of instructor. (odd years)

HIST-312 History of Recent and Contemporary America--W 4 hours

An intensive study of the domestic and foreign policies of the United States in the twentieth century. Particular emphasis is given to the emergence of the nation as a world power, the progressive movement, World War I, prosperity decade, the great depression, the New Deal, World War II, and post-war problems. Prerequisite: HIST-112 United States History or permission of instructor. (odd years)

HIST-313 Civil War and Reconstruction--Sp 5 hours

A study of the sectional crisis, the military and non-military aspects of the Civil War, and the social and political phases of Reconstruction. Prerequisites: HIST-111,112 U.S. History. (even years)

HIST-321 Historical and Political Development of East Asia--A 4 hours

A study of the historical, political, geographical, social, and diplomatic developments of East Asia from the 18th century to the present. May be counted as either history, political science, or geography credit.

HIST-322 The Middle East: History and Politics--Sp 4 hours

An analysis of the major historical, political, geographical, and social forces, such as religion and nationalism, that have shaped the contemporary Middle Eastern states. May be counted as either history, political science, or geography credit.

HIST-375 Social Movements--Sp 4 hours

A study of the influence of ideas and institutions upon social movements in America.

HIST-400 and HIST-401 Research in History 5 hours

HIST-400 Research in American History--Sp

HIST-401 Research in European History--Su

HIST-402 Research in Asian History--W

All majors are required to take either HIST-400, HIST-401 or HIST-402. Each student will prepare a formal monograph. Prerequisite: Major or minor in history.

HIST-404 History of Christianity: Pre-Reformation--A 4 hours

A survey of ancient and medieval church history, with emphasis given to doctrinal and institutional developments. (odd years)

HIST-405 Great Power Diplomacy in the Modern World--W 4 hours

An examination of international relations in the era of nationalism, colonialism, revolution, and ideological conflict. Emphasis is given to the origins and development of contemporary world crises. (Serves as an elective for history/political science majors.) (odd years)

HIST-411 Interpretations in American History--A 5 hours

A study of selected historical problems in America. History with the emphasis placed upon new interpretations and their impact. (even years)

HIST-468 History of Ancient Political Thought--A 3 hours

A study of early political theory with special attention to Plato, Aristotle, and Augustine. Stress is on the reading and analysis of primary documents. (even years)

HIST-469 History of Modern Political Thought--A 3 hours

A historical development of political thought from Locke to the present. An examination of representative contemporary ideas on the nature of the state; anarchism, libertarianism, philosophical conservatism, 20th century liberalism, socialism, fascism, nazism, and communism. (odd years)

Political Science

POLS-261 American National Government--A 5 hours

An introductory study of the development and structure of the Constitution and the operation of our national political institutions.

POLS-262 American State and Local Government--W 5 hours

The organization and function of states and their political subdivisions form the basis of study in this course.

POLS-264 Problems in American Politics--W 5 hours

An analysis of key issues affecting various levels of government such as abortion, social welfare, terrorism, and nuclear war.

POLS-321 Historical and Political Development of East Asia--A 4 hours

See course description for HIST-321 Historical and Political Development of East Asia.

POLS-322 The Middle East: History and Politics--Sp 4 hours

See course description for HIST-322 Middle East: History and Politics.

POLS-336 The Judicial Process--Sp 3 hours

A study of the American judicial system, its development, contemporary character, and the effect of the legal system on the American citizen. Actual observations of the judicial process are included.

POLS-361 The American Presidency--Sp 4 hours

An overview of the office of the American president, the various responsibilities which he holds, the contrasting theories held in regard to the execution of his office, and a consideration of the increasingly important influence his actions have upon the nation and the rest of the world. (even years)

POLS-362 The Supreme Court--W 4 hours

An introductory course to the United States Supreme Court as an institution of lasting permanence within the American governmental structure.

POLS-363 The Legislative Process--Sp 4 hours

An in-depth analysis of the real mechanisms which undergird the role to the Congress of the United States as shown by the current literature and exemplified by present members. (odd years)

POLS-365 International Relations--W 5 hours

A survey of contemporary world affairs in relationship to the struggle for power within the nation-state system. Divisive and cohesive factors among nations are stressed.

POLS-367 Research Methodology--A 3 hours

In the presentation of the scientific method of research, particular emphasis will be placed upon hypothesis formation, questionnaire design and administration, sampling, interviewing and data collection.

POLS-368 Data Analysis--W 5 hours

The basic concepts of descriptive and inferential statistics are presented for the purpose of analysis of data sets. Among the concepts emphasized are levels of analysis, measures of central tendency and dispersion, probability, hypothesis testing, simple tests of significance correlation, and linear regression. The course will utilize a major statistical software program to familiarize the students with the power of the computer in data analysis. Prerequisite: CRJU-367 Research Methodology.

POLS-369 Public Policy--Sp 4 hours

See course description for PUAD-369 Public Policy.

POLS-405 Great Power Diplomacy in the Modern World--W 4 hours

An examination of international relations in the era of nationalism, colonialism, revolution, and ideological conflict. Emphasis is given to the origins and development of contemporary world crises. (Serves as an elective for history/political science majors.)

POLS-459 Political Science Seminar I--A 2 hours
(odd years)

The collection and analysis of data, from a normative and/or empirical perspective, pertaining to a political topic chosen in conjunction with a professor who directs the research project.

POLS-460 Political Science Seminar II--W 3 hours

The completion of data analysis, the preparation of the research report and the oral defense of the research project under the guidance of the research director. Prerequisite: POLS-459 Political Science Seminar I.

POLS-461 Political Dynamics--Sp 3 hours

An analysis of public opinion, interest groups, political parties, voting behavior; a study of the formation of political attitudes and their influence on the political process. Prerequisites: POLS-261 American National Government and POLS-368 Data Analysis.

POLS-463 American Constitutional Law--Sp 5 hours
(odd years)

An in-depth analysis of some of the Supreme Court decisions with their particular relevance to political, social, economic, and religious dimensions of life. Prerequisite: POLS-362 The Supreme Court.

POLS-468 History of Ancient Political Thought--A 3 hours

See course description for HIST-468 History of Ancient Political Thought.

POLS-469 History of Modern Political Thought--A 3 hours

See course description for HIST-469 History of Modern Political Thought.

POLS-470 Prelaw Seminar--W 5 hours

Individual projects acquaint the student with legal procedures and research in such areas as briefs and contracts.

Public Administration

PUAD-161 Introduction to Public Administration--A 4 hours

An introduction to public administration both as a discipline and profession, including organization theory, budgeting, public policy analysis and evaluation, and public sector administration.

PUAD-210 Public Budgeting--Sp 5 hours

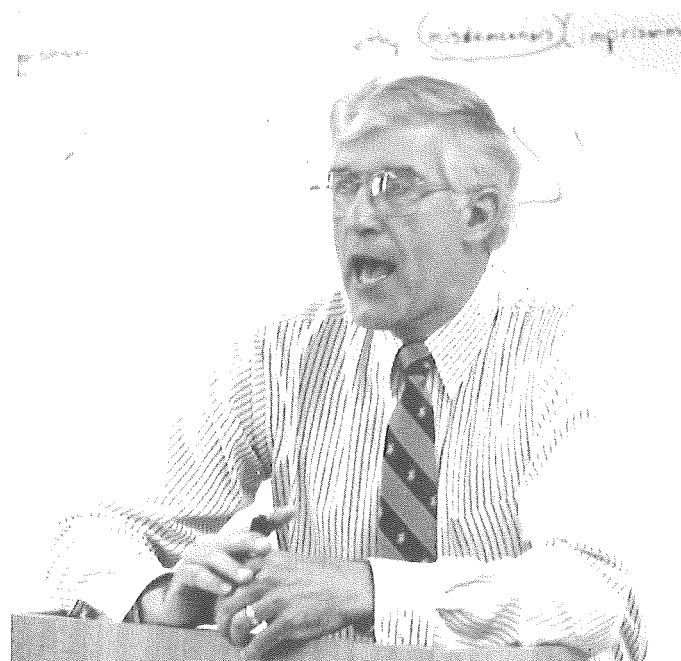
An analysis of public sector budgeting at all levels of government in the United States with an emphasis on budgets as reflectors of priority, power, and control. Prerequisite: PUAD-161 Introduction to Public Administration.

PUAD-367 Research Methodology--A 3 hours

See course description for POLS-367 Research Methodology.

PUAD-368 Data Analysis--W 5 hours

See description of POLS-368 Data Analysis.



Political scientist Joseph Halsey advises prelaw students and teaches courses in American government.

PUAD-369 Public Policy--Sp 4 hours

A focus on decision-making, problem-solving, and methods of program analysis. Pre-requisites: HIST-111,112 U.S. History; PUAD-161 Introduction to Public Administration; POLS-261 American National Government.

PUAD-460 Seminar in Public Administration I--A,W 1 hour
(even years)

PUAD-461 Seminar in Public Administration II--Sp 4 hours

A capstone, two-quarter experience for public administration majors which involves the research of issues related to public administration in the United States from a normative and/or empirical perspective. Findings research in PUAD 460 are presented and discussed in PUAD 461.

PUAD-464 Strategies for Public Administration--A 4 hours

This course is 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.

Sociology

SOC-220 Criminology--A 5 hours

This course surveys the nature and cause of crime in addition to methods of prevention and treatment. Emphasis focuses on the criminal mind and the future of crime in America. Prerequisite: CRJU-131 Introduction to Criminal Justice.

SOC-230 Principles of Sociology--A 5 hours

An introduction to the concepts of sociology. The structure and processes of social life are studied.

SOC-231 Juvenile Delinquency--Sp 5 hours

See course description for CRJU-231 Juvenile Delinquency.

SOC-232 Casework--Sp 5 hours

See course description of SWK-232 Casework.

SOC-240 Marriage and the Family--A,W,Sp,Su 5 hours

A study of the scientific knowledge which exists about mate selection, the courtship process, and the adjustment problems of marriage.

SOC-333 Social Stratification--A 4 hours

A study of the class structure and its implications for American society. Prerequisites: SOC-230 Principles of Sociology.

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SOC-334 Sociology of Religion--Sp 4 hours

The relationship of religion to society with particular reference to contemporary movements.

SOC-342 Human Sexuality--W 3 hours

A study of biblical content regarding human sexuality and an analysis of contemporary concepts within a framework of Christian thought.

SOC-367 Research Methodology--A 3 hours

See description for POLS-367 Research Methodology.

SOC-368 Data Analysis--W 5 hours

See course description of POLS-368 Data Analysis.

SOC-371 Family and Society--W 5 hours

An examination of marriage and family patterns in various cultures, with emphasis on the relationship of contemporary social movements and the family.

SOC-372 Social Theory--A 4 hours

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

SOC-373 Social Problems--Sp 5 hours

A 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-374 Urban Sociology--W 4 hours

Various models of the Christian approach to the contemporary urban community and social classes. Familiarizes students with the needs of urban culture, shows how various Christian models are applied as well as what the anticipated results might be.

SOC-375 Social Movements--Sp 4 hours
(even years)

See course description for HIST-375 Social Movements.

SOC-441 Research in Sociology--W 5 hours

A senior research paper in which each student focuses upon an issue or topic within the discipline of Sociology.

Social Work

SWK-232 Casework--Sp 5 hours

Introduction to the general principles and methods of casework employed in various helping professions. Special attention will be given to studying a problem-solving approach as it applies to working with individuals, families, and groups.

SWK-233 Introduction to Social Work--A 5 hours

An introduction to the profession of social work. Designed to give the student an understanding of the historical development and professionalization of social work. Includes an overview of fields of social work service, agencies, and organizations. Serves as a prerequisite to all other courses offered in the social work program. A Christian ministry is required.

SWK-301 Human Behavior and the Social Environment I--A 4 hours

An examination of the development of the individual over his life span and his memberships in families and small groups. Utilizing a person-environment focus, the course studies the relationship between human biological, social, psychological, and cultural systems as they affect and are affected by human behavior. Prerequisite: SWK-233 Introduction to Social Work, SOC-230 Principles of Sociology, PSYCH-160 General Psychology, BIO-100 Principles of Biology, PSYCH-260 Human Development: Lifespan.

SWK-302 Human Behavior in Social Environment II--W 4 hours

A continued examination of the social system's approach to understanding human behavior with groups, organizations, and communities. Special attention will be given to the Christian perspective on issues of diversity: age, race, ethnicity, gender, culture, social class, sexual orientation, and disabilities. Prerequisite: SWK-301 Human Behavior in Social Environment I.

SWK-311 Social Welfare Policy I--W 4 hours

An examination of the institution of social welfare. Focus will be on the history and systems orientation of service programs. Analysis of the political process and its impact on the social welfare system especially as they relate to oppressed populations. The student will also be introduced to social policy analysis and helped to integrate policy and social work practice. Welfare reform from a Christian perspective will also be reviewed. Prerequisites: BIO-100 Principles of Biology; SOC-230 Principles of Sociology; PSYCH-160 General Psychology; ANTH-180 Cultural Anthropology.

SWK-312 Social Welfare Policy II--Sp 4 hours

A continued examination of the social welfare system, its relationship to other systems, and the significant social problems of the 1990's. Students will be involved in analyzing a number of social policies. Welfare reform will be further investigated, especially the role of the church. Prerequisite: SWK-311 Social Welfare Policy I.

SWK-321 Social Work Practice I--W 5 hours

First of a four-course sequence studying the practice and theory skills utilized in generalist, beginning level social work practice. Focus will be on the knowledge, values, and skills basic to the social work process. Additional attention is given to interviewing assessment and case management skills. The generalist intervention model will be studied as it applies to working with micro, mezzo, and macro systems. Prerequisites: SWK-311 Social Welfare Policy I; SWK-301, 302 Human Behavior and the Social Environment I, II. (Fee: \$30)

SWK-322 Social Work Practice II--Sp 5 hours

A continued examination of the generalist intervention model of problem-solving as it applies to working with micro, mezzo, and macro systems. Special attention will be focused with respect to applying the model within the context of gender, racial, and other groups of diversity. Ethical decision-making processes will also be studied. Prerequisites: SWK-321 Social Work Practice I; SWK-343 Junior Seminar I; SWK-344 Junior Field Experience I. (Fee: \$30)

SWK-343 Junior Seminar I--W 1 hour

This course is taken concurrently with Social Work Practice I and Junior Field Experience I. A special feature to the overall process is the sharing of experiences in a one hour per week seminar session. Prerequisites: BIO-100 Principles of Biology; SWK-233 Introduction to Social Work; SWK-311 Social Welfare Policy I; SWK-301 Human Behavior and the Social Environment I; PSYCH-160 General Psychology; PSYCH-260 Human Development: Lifespan; SOC-230 Principles of Sociology.

SWK-344 Junior Field Experience I--W 2 hours

This course is taken concurrently with Social Work Practice I and Junior Seminar I. It provides one day a week of practical field experience in a professional social work agency. The student will be under the supervision of a qualified field supervisor. Prerequisites: BIO-100 Principles of Biology, SWK-233 Introduction to Social Work; SWK-311 Social Welfare Policy I; SWK-301 Human Behavior and the Social Environment I; PSYCH-160 General Psychology; PSYCH-260 Human Development: Lifespan; SOC-230 Principles of Sociology.

SWK-345 Junior Seminar II--Sp 1 hour

This course is taken concurrently with Social Work Practice II and Junior Field Experience II. A special feature to the overall process is the sharing of experiences in a one hour per week seminar session. Prerequisites: SWK-343 Junior Seminar I; SWK-344 Junior Field Experience I, SWK-321 Social Work Practice I.

SWK-346 Junior Field Experience II--Sp 2 hours

This course is taken concurrently with Social Work Practice I and Junior Seminar I. It provides one day a week of practical field experience in a professional social work agency. The student will be under the supervision of a qualified field supervisor. Prerequisites: SWK-321 Social Work Practice I; SWK-343 Junior Seminar I; SWK-344 Junior Field Experience I.

SWK-367 Research Methodology--A 3 hours

See course description for POLS-367 Research Methodology.

SWK-368 Data Analysis--W 5 hours

See course description for POLS-368 Data Analysis.

SWK-421 Social Work Practice III--A 5 hours

A further study of social work practice in which the student learns to combine all of the appropriate methods and skills to intervene on behalf of the client in need. Special attention will be given to distinctive populations, including ethnic minorities. Students will learn to be culturally appropriate and competent as they advocate for diverse clients. Mezzo practice (group work) will be reinforced. Prerequisites: SWK-321,322 Social Work Practice I, II; SWK-343,345 Junior Seminar I, II; SWK-344,346 Junior Field Experience I & II. (Fee: \$30)

SWK-422 Social Work Practice IV--W 5 hours

The final course in the practice sequence. Designed to complete the undergraduate program and equip the student for beginning level professional social work. The course focuses upon macro-level practice. Community organization and community development will be studied from a Christian perspective. A community development project will be completed. Prerequisites: SWK-321,322,421 Social Work Practice I,II,III, SWK-343,345 Junior Seminar I, II; SWK-344,346 Junior Field Experience I, II; SWK-451 Senior Seminar I; SWK-456 Senior Field Experience I. (Fee: \$30)

SWK-451 Senior Seminar I--A 2 hours

The senior seminar meets two hours per week. It functions as a professional support group in which students receive support, as well as constructive feedback, from their peers as they enter the profession. Prerequisites: SWK-321,322 Social Work Practice I, II; SWK-343,345 Junior Seminar I, II; SWK-344,346 Junior Field Experience I, II.

SWK-452 Senior Seminar II--W 2 hours

A continuation of Senior Seminar I. A course for graduating seniors to demonstrate their proficiency in beginning professional social work practice. Involves self-evaluation as well as group interview. Prerequisites: SWK-451 Senior Seminar I; SWK-321,322,421 Social Work Practice I,II,III.

SWK-456 Senior Field Experience I--A 5 hours

This course is taken concurrently with Social Work Practice III and Senior Seminar I. This course requires three days per week (240 hours) in the field, providing the student with a more in-depth practical experience in a professional social work agency. The student will apply theory to actual practical social work situations. The student will function as a beginning level social worker in the agency under close supervision of the field instructor. Prerequisites: SWK-321,322 Social Work Practice I,II; SWK-343 Junior Seminar I; SWK-344 Junior Field Experience I.

SWK-457 Senior Field Experience II--W 5 hours

This course is taken concurrently with Social Work Practice IV and Senior Seminar II. It is also a continuation of Senior Field Experience I and will be completed within the same agency. This will include an additional three days per week (240 hours) of practical experience. Prerequisites: SWK-343 Junior Seminar I; SWK-344 Junior Field Experience I; SWK-456 Senior Field Experience I.



Cynthia Sutter-Tkel, director of the social work program, brings urban and intercultural social work experience to the classroom.

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Financial Information

College Financial Operating Policy

The application fee, tuition, room, board, and other fees are kept as low as possible to be consistent with responsible operation. The revenue from students does not cover the total cost of operation.

The College is partially supported by individuals and churches who desire to have a share in the preparation of young people for effective Christian service as pastors, teachers, missionaries, evangelists, and dedicated Christians in all walks of life. Some funds are received from interested businesses, industries, and foundations.

Student costs as stated are subject to change upon reasonable notification by the College.

Student Costs

Tuition

*Regular tuition-per quarter hour	\$164
Audit tuition-per quarter hour	82

Fees

Application fee	30
Board-per quarter	704
Car registration fee-per quarter (commuter)	9
Car registration fee-per quarter (resident)	12
Drop/add (course) fee	5
Graduation fee (seniors only)	90
Accident insurance fee (estimate)	44
Sickness Insurance (if not waived)(estimate)	
Single student	41
Married student and spouse	734
Married student, spouse, and family	793
Late payment fee	20
Lost room key	25
New student orientation	
Resident student-fall	80
Resident student-winter, spring	40
Commuting student-fall	50
Commuting student-winter, spring	30
Reservation deposit	250
Room deposit (refundable upon withdrawal)	30
Room-per quarter (with computer, double occupancy)	820
Room-per quarter (South, Harriman, Bethel dorms)	649
Test-out fee-per quarter hour	82
Transcript fee	3

Accident Insurance Fee

All students carrying six or more credit hours are required to pay the accident insurance fee which provides group coverage for accidental injuries. The Accident and Sickness Insurance Plan brochure, available at Patterson Clinic, explains this coverage in detail.

* 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.*

Sickness Insurance

All students carrying six or more credit hours will be charged for sickness insurance coverage, unless they have completed and returned the insurance waiver card before the end of the third week of Fall Quarter. If a student's education is interrupted, the waiver card process must be repeated before the end of the third week of the returning quarter. The insurance waiver card is included with the Accident and Sickness Insurance Plan brochure available at Patterson Clinic. *Clinic privileges are available to all students carrying 6 or more credit hours, even if sickness insurance is waived.*

Summary of Costs

Basic Expenses

Estimated basic costs for the academic year of 1995-1996 (excluding transportation, personal expenses, books, and laboratory fees):

Tuition (based on an average of 16 quarter hours)	\$7,872
Board (21 meals per week)	2,112
Room (with computer network)	2,460
Accident Insurance Fee (estimate)	132
Total Estimated Costs	\$12,576

Other Expenses

Other yearly expenses may be estimated as follows:
books and supplies \$588
personal expenses (including clothing, laundry, recreation, and personal items) \$1,077
transportation (based on area of residency) \$50-3,810
Financial aid may be available to help with college costs. Contact the College's financial aid office for additional information concerning available funds and application procedures.

Financial Registration Policy

To enable the College to be responsible in meeting its financial responsibilities, each student must make provision for the payment of his or her College bill at the beginning of each quarter. A student's registration for classes indicates a commitment to pay for related charges as stated in the college catalog.

To help students care for this responsibility, the first two days of each quarter are set aside for financial registration. **A student is not considered registered until arrangements for payment have been finalized with the business office.** Any student who does not make financial arrangements for the payment of his or her College bill will not be permitted to eat in the College cafeteria, use the library, or attend classes and may be asked to leave the College.

Notification of the College Bill

Students who preregister will receive an invoice based on their preregistration schedule ten to fifteen days before the quarter begins. A statement of student account is generated each month that the account has activity. Invoices and account statements are directed to the student at his/her current college residence. Students may request to have statements sent to their parents address; however, they are still addressed to the student.

Forms of Payment

Students may pay their College bills using cash, money orders, personal checks, certified checks, or checks drawn on a major credit card. Payments may be made at the cashiers office or at their temporary location during financial registration.

Payment Penalties

Students who fail to make acceptable payment arrangements within a reasonable period of time will be denied access to the cafeteria and library until such arrangements are made.

Students who do not make financial arrangements within the first two days of the quarter will be charged a \$20 late registration fee. Those who do not pay their bills in full will be charged 1.083% interest per month on the unpaid balance.

Students with unpaid balances at the end of a quarter could be denied enrollment in the next quarter, grade reports, transcripts, and/or college diploma. They will also be responsible for any fees incurred in the collection of their past due account.

Interest Rates

An annual interest rate of 13% (1.083% per month) will be charged from the beginning of fall quarter to the end of spring quarter on accounts of students enrolled in the current quarter.

An annual interest rate of 15% (1.25% per month) will be charged during the academic year on accounts of students no longer enrolled; and, during the summer months on all student accounts.

Payment Plans

Students may take advantage of one of two payment plans:

1. **Payment in Full** is the most popular payment plan. This plan involves paying the full amount due as indicated on the Student Invoice within the first two days of the academic term (quarter). Payment envelopes available on campus during registration enable students to send checks through intracampus mail and avoid standing in lines.

2. **Three-Pay Plan** makes it possible for the student to pay his/her college bill in three payments spread over sixty days. An interest charge of 1.083% per month is made on the unpaid balance.

First Payment: At least one-third of the amount the student is required to pay is due at financial registration. **This is the amount of the student's bill remaining after financial aid grants and scholarships are deducted.** When this payment is made, the student has completed financial registration. A late fee of \$20 is assessed if the first payment is not made by the end of the financial registration period.

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

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

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

Prepayment Incentive Credit Plan (PIC-Plan) enables students to earn interest on student accounts that have a credit balance of \$500 or more. Interest earned is credited monthly. This plan operates automatically as soon as the student has a credit balance of \$500 or more on the first day of a calendar month. Prepayments can be made anytime. All payments are credited immediately to the student's account. The College reserves the right to limit the amounts deposited under the PIC-Plan. Interest rates are established on a quarterly basis beginning January 1, April 1, July 1, and October 1. Please call (513) 766-7665 for the current rate. Please request a current PIC-Plan brochure from the Admissions Office or the Cashier's Office for more details.

Withdrawals from a Student Account (Credit Balance)

A student may withdraw funds from his or her account if the account has a credit balance. Cash withdrawals totalling \$50 maximum may be made on a weekly basis. No more than two cash withdrawals may be made in a week. No withdrawals are allowed during the week of financial registration. Withdrawals of amounts greater than \$50 are issued by check upon request at the cashier's office. Check processing normally requires one or two full business days.

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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 quarter 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 before the reservation deposit deadline. Requests for refunds received after the reservation deposit deadline are partially refundable (\$150 of the \$250 deposit) until the refund date. No refunds are available after the refund dates.

Reservation deposit submission deadlines and refund dates are as follows:

Term	Deadline	Refund date
Fall Quarter	May 1	September 1
Winter Quarter	November 15	December 15
Spring Quarter	March 1	March 15
Summer Session I	May 15	June 1
Summer Session II	August 1	August 15

Continuing Student Reservation Deposit Refund

Full (100%) refunds will be made to continuing students who notify the College by July 1 of their cancellation. \$100 of the deposit is non-refundable to continuing students who notify the College between July 2 and August 15 of their intention not to return fall quarter. No refunds will be made after August 15.

Withdrawal Refunds

Tuition and Science Laboratory Fees

Students withdrawing from the College before the end of a quarter may request a refund from the Business Office. Refunds may be requested anytime after the beginning of a quarter. The effective date of the withdrawal from the College is the last day of class attendance as determined by the Academic Records Office.

Processing of refunds will begin the third week of the quarter. Tuition and science laboratory fee refunds for withdrawal are granted on this schedule:

Refund	Fall 1995	Winter 1996	Spring 1996
100%	thru Sept. 29	thru Jan. 12	thru Mar. 29
75 %	thru Oct. 6	thru Jan. 19	thru Apr. 5
50%	thru Oct. 13	thru Jan. 26	thru Apr. 12
25%	thru Oct. 20	thru Feb. 2	thru Apr. 19
No Refund	after Oct. 20	after Feb. 2	after Apr. 19

Course offerings changed or deleted by the College entitle a student to a full refund of tuition and related course fees. Students withdrawing from a course or courses will be granted full tuition refunds to apply toward courses added. If the new total hours are fewer than the original total, the above refund schedule will apply.

Other Fees

All other fees are not refundable except for withdrawal within the first full calendar week of the quarter.

Board

Board charges will be refunded on a proportionate weekly basis. Board weeks begin on Sunday and end Saturday. Board refunds are computed based on the last day of residency. Full board contracts are required for all students living in the residence halls. There are no partial board contracts available.

Room

Rooms are reserved for each student for an entire quarter. 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 Patterson Clinic or a physician. Room rent will then be refunded on a proportionate basis.

Federal Refund Policy

In addition to the overall institutional policy requirements, the following regulations mandated by the United States Department of Education are applicable. When a refund is due a student under Cedarville College's refund policy and the student received financial aid under any federal Title IV funds, except the college work study program, a portion of the refund shall be applicable to the Title IV programs based on a federal formula.

Pro Rata refunds will be calculated for all first-time students who withdraw before the expiration of 60% of their first term of attendance.

A federal refund and an institutional refund will be calculated on all other students who withdraw. The student will receive the refund that provides the student with the largest refund.

Veterans Training Benefits and Dependents Educational Assistance

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

Students under Chapters 30, 32, 35, and 106 are required to pay the school for all charges. The Veterans Administration in turn pays them a monthly allowance based upon their training load. Veterans under Chapter 31 are paid a monthly allowance and the Veterans Administration pays the school for tuition fees, books, and supplies.

Inquiries concerning eligibility should be directed to the Contact Office of a Veterans Administration Regional Office. Students planning to study under one of the education laws should receive approval prior to enrolling. A Veterans Administration training officer will contact the college in the disabled cases to accomplish this requirement for the student.

Deferred Payment Plan for Veterans

For Option Deferred Payment Plan for Veterans (under chapters 30, 31, 32, and 35) receiving the Educational Assistance Allowances, consult the Academic Records Office.

Payments by veterans receiving their Educational Assistance Allowance checks one month behind will be as follows:

Fall Quarter:	first payment by 11/6 second payment by 12/5 final payment by 1/5
Winter Quarter:	first payment by 2/5 second payment by 3/5 final payment by 4/5*
Spring Quarter:	first payment by 4/5* second payment by 5/6 final payment by 6/5

Interest of 1.083% per month will be charged on unpaid balances. A late payment charge of \$20 is applicable for accounts unpaid after the payment due date.

Veterans receive eight monthly VA checks, which must pay for nine deferred payments on the three-quarter system.

* Two payments are due on the same date.

Financial Aid

When completing the FAFSA, use this Title IV Code for Cedarville College: **003025**.

General Information

Cedarville College has a broad program of financial aid to assist students who are accepted for admission and who demonstrate a need for such help. All grants and awards are made through the Financial Aid Office of Cedarville College. There are limited endowment funds in varying amounts. These funds have been contributed by individual donors. They are gift awards and are offered based on need and conditions stipulated by the donor. All financial aid, with few exceptions, is based on need as calculated by the Free Application for Federal Student Aid (FAFSA). For entering students, this form is available from high school guidance offices or Cedarville College. Students enrolled at Cedarville College will receive a Renewal Application in the mail from the Central Processor or may pick up the FAFSA from the College Financial Aid Office. The Free Application for Federal Student Aid (FAFSA) and a Cedarville College Application for Financial Aid (CAF), which is available by request from the College Financial Aid Office, must be submitted each year for all individuals applying for financial aid. The FAFSA should be submitted to the Central Processor by February 15, but not before January 1 preceding the academic school year for which aid is being requested.

Cedarville College accepts the premise that the primary responsibility for financing a college education rests with the student and his family. Aid which Cedarville College is able to extend through work opportunities, scholarships, grants, and loans is viewed as supplementary to what the student and his family can provide. Students requiring assistance are expected to carry some of the financial responsibility in the form of loans, personal savings, summer earnings, part-time

work, or a combination of these self-helps. It is assumed that education has a high priority in family affairs and that the children will share in implementing this priority.

Assistance received at any time from sources other than Cedarville College must be reported to the Director of Financial Aid as a part of the student's financial resources. Assistance of this nature will be considered in making appropriate revisions of aid offered by Cedarville College.

Financial assistance is awarded for one year only, but may be applied for on a yearly basis. The applicant must continue to meet the qualifications outlined in the financial aid agreement.

A notification of an award is mailed to students as soon as possible after admission to Cedarville College. The amount of assistance awarded is stated on the form, and the student indicates acceptance of the award by signing a copy of the form and returning it to the Financial Aid Office.

Students with financial aid questions should call the Financial Aid Office at (513) 766-7866 or 1-800-444-2433 during office hours.

Grants and Scholarships

All awards are based on full-time enrollment (12 hours or more). Students who enroll for less than 12 hours will have their awards pro-rated according to the following schedule:

12 hours or more = full-time
9-11 hours = 3/4 time
6-8 hours = 1/2 time
1-5 = no award

Academic Scholarships

Merit-based Achievement Scholarships are available for new students who scored in the top 20% on the ACT or SAT assessments. Other merit-based scholarships include the National Merit Scholarship, Leadership Scholarship, Chancellor Scholarship, and Wyrzten Scholarship. Information concerning these scholarships is available in the Admissions Office.

The Cedarville College Academic Scholarship is available to upper classmen who have demonstrated scholastic ability and a definite financial need. These scholarships range from \$1500 to \$2100. They are offered on a first come, first served basis until available funds are exhausted. The scholarship is awarded on an annual basis and requires a minimum cumulative academic average of 3.25 for upperclassmen. Christian character, service, and cooperation are also considered in making this scholarship award.

Departmental Grants

Institutional grants may be available in various departments of the College, such as music, speech, and athletics. Inquiries should be addressed to the department chairman.

State Grant Programs

Ohio Student Choice Grant

Students who are residents of Ohio and attending Cedarville College on a full-time basis may be eligible for an Ohio Student Choice Grant. Recipients must be an undergraduate student enrolled in a bachelors degree program. Students who have a prior bachelors degree or attended college full-time prior to July 1, 1984 do not qualify. Demonstration of financial need is not required. Students must obtain and submit a residency verification form to the College.

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Ohio Instructional Grants

Students who are residents of Ohio and have total family incomes of less than \$28,000 may be eligible for an Ohio Instructional Grant. Application may be made through the completion of the FAFSA.

State Grant Refund Policy

Students who qualify for state grant funds must be registered for at least 12 credit hours per quarter in order to receive the benefits. Students withdrawing or dropping below full-time status during the quarter will have their state grant payments adjusted according to the state grant refund policy. Questions pertaining to policy details should be directed to the Financial Aid Office.

Paul Douglas Teacher Scholarship Program

This program is designed to assist eligible students enrolled in a teacher certification program at the pre-school, elementary, or secondary level. Applicants must rank in the top 10% of his or her high school graduating class, or have received GED test scores equivalent to ranking in the top 10% of high school graduates nationally. Applicants may be eligible to receive up to \$5,000 per year. For more information concerning eligibility requirements and application procedures, contact your high school counselor, state aid commission or the financial aid office. Application deadlines are generally in March preceding the award year.

Federal Pell Grants

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 under an entitlement grant program sponsored by the federal government through the Office of Education. Students may see their high school guidance counselors or write the financial aid director for additional information. All students with financial need are encouraged to apply for this grant, preferably by using the Free Application for Federal Student Aid (FAFSA).

Grants currently range from \$400 - \$2,300 per year. Eligibility is determined by a federal processing agency for the Department of Education. Student Aid Reports are mailed directly to the applicant's home residence.

Federal Supplemental Educational Opportunity Grants

The federal government, through the United States Office of Education, provides funds for a limited number of students with exceptional financial need who require these grants to attend college, and who show academic or creative promise. The amount of financial assistance a student may receive under a Federal Supplemental Educational Opportunity Grant depends upon his need, taking into account his financial resources, those of his parents, and the cost of attending Cedarville. In addition, a student must be eligible to receive a Pell Grant.

The Ohio Academic Scholarship Program

A \$1,000 scholarship is awarded to the top graduating senior in each accredited Ohio high school. The student is chosen according to G.P.A. and scores on the ACT. The recipient must attend an eligible Ohio college or university. If the top student chooses not to attend an Ohio institution, the scholarship is awarded to the next highest student in the graduating class. The scholarship is renewable each year providing the student remains full time and is making satisfactory academic progress. One thousand of these scholarships are awarded each year. For more information, contact your high school counselor.

The Ohio Air National Guard Tuition Assistance Program

This program assists Ohio National Guard members who are full time students, at least 17 years old, and enlisted for a period of six years. Up to twelve quarters 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 (513) 323-6704 or write to: Ohio National Guard, Educational Opportunities, 2825 West Granville Rd., Worthington, OH 43085.

The Ohio War Orphans Scholarship

This scholarship is awarded to students who are children of deceased or disabled veterans. The student must be enrolled full time and be making satisfactory academic progress. For more information, contact the Ohio Board of Regents, Student Assistance Office, Ohio War Orphans Scholarship, 3600 State Office Tower, 30 East Broad Street, Columbus, OH 43215.

United States Military Scholarships

Army. Two-, three-, and three-and-a-half-year scholarships are available for students who enroll in Army ROTC. These scholarships pay all tuition, fees, and books, plus \$150 per month for 10 school months per year. Additional information may be obtained by contacting the Professor of Military Science, Central State University, Wilberforce, OH 45384, or by calling (513) 376-6657 or (513) 376-6279.

United States Army National Guard Scholarships, which pay up to \$1000 per school year, are available for those who qualify. Additional information pertaining to these scholarships is available from the Professor of Military Science, Central State University.

Air Force. Air Force ROTC scholarships paying for the cost of tuition, fees, textbooks, and a \$150 monthly allowance are available 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, phone: (513) 873-2730.

Special Institutional Grant and Scholarship Funds

Alumni and other people who have a special interest in the growth and progress of Cedarville College have generously donated funds to help defray educational expenses of students who have special and exceptional financial needs. These funds, which are listed below, are, for the most part, under the control of the director of financial aid. He will determine who is eligible and the award that will be provided according to specific guidelines for each fund. The minimum cumulative grade point average necessary to obtain assistance from these funds is 2.0 unless otherwise stipulated by the donor.

The African/African American Nursing Scholarship This scholarship is awarded to an African or an African-American nursing student who demonstrates a high need for financial assistance and an eagerness to engage nursing abilities as a ministry for Christ and who maintains a satisfactory GPA.

The Alumni Softball Fund Awarded to qualified students who participate in the softball program.

Mead C. Armstrong Endowed Memorial Scholarship Fund Given to a student majoring in biblical education. Provided by the family of Mead Armstrong.

The Robert Atkinson Memorial Scholarship Given to a junior majoring in political science, history, or music and having a GPA of 3.25 or higher. Preference is given to members of Licking County Grace Brethren, Blacklick, Ohio; Trinity Grace Brethren Church, Columbus, Ohio; or to a child of a current missionary.

Rudy Bedford Endowed Memorial Scholarship Fund Given to a business major. Established by trustees of the College.

Arthur Beerman Scholarship Given by an anonymous donor to honor Arthur Beerman's generosity in assisting a family member gain an education. Granted annually to a qualified student in the Music Department.

William J. and Nora J. Bolthouse Endowed Scholarship Fund Given first to students from Ensley Baptist Church of Sand Lake, MI, and to students of William Bolthouse Farms, Inc. employees. Other students may be eligible when the above priority has been satisfied.

Ruby E. Booher Bontrager Memorial Endowed Grant Fund Given to students who have demonstrated financial need.

Cedarville College Memorial Endowment Given to full-time students who demonstrate financial need.

The Christian Ministry Scholarship Fund Granted to a full-time Bible major student with priority given to one with cystic fibrosis or a learning disability.

The David H. and Edith W. Clark Scholarship Fund The recipient must demonstrate a financial need, have completed at least one year at Cedarville, and maintain a GPA of 2.5 or above.

Minor and Bernice Cross Endowed Scholarship Fund Given to eligible students who have demonstrated financial need.

The First Baptist Church of Findlay, Ohio, Scholarship Fund Given to students of this church. Others may be considered should no qualified students from the church enroll.

Lewis P. Gallagher Scholarship Fund Given to qualified students from the state of Maine. Provided by the Lewis P. Gallagher Family Foundation.

Margaret Gallagher Scholarship Provided by the Lewis P. Gallagher Family Foundation. Awarded to qualified students in the Department of Nursing.

The GAR Foundation Scholarship Fund Awarded to full-time students who demonstrate financial need.

Good News Scholarship Award This award is granted to a student who has declared a major in biblical education, has publicly expressed intent to continue on to seminary, and is currently active in Christian ministry. The student must also demonstrate a financial need, work part-time to contribute toward educational goals, and maintain a GPA of 3.0 or above.

Helping-Hand Endowed Fund Given to deserving and needy students. Established by Miss Mabel Irvin Walker.

William and Cora Norman Henry Endowed Memorial Scholarship Fund Given to full-time students who can demonstrate financial need. Provided by Geraldine Henry.

Bea Holmes Nursing Scholarship Granted to a qualified student in the Department of Nursing in honor of Bea Holmes. Endowment provided by Richard and Carole Holmes.

Edward B. Holmes Engineering Scholarship Granted to a qualified student in the Elmer W. Engstrom Department of Engineering in honor of Edward B. Holmes. Endowment provided by Richard and Carole Holmes.

Harold P. "Howdy" House Endowed Memorial Scholarship Fund Given to a full-time student with demonstrated financial need.

Robert L. Hutchinson Endowed Memorial Fellowship Fund Given to a student preparing for full-time foreign missionary service.

Intercollegiate Debate Scholarship Granted to a qualified student participating in Intercollegiate Debate. Provided by David and Deborah Haffey.

The Diane Ren'ee Jones Memorial Scholarship Fund Awarded to qualified students who major in biological science or science education and maintain a GPA of 2.0 or higher.

William M. Junk and Frances William Smith Junk Endowed Grant Given to a freshman student with demonstrated academic prowess and financial need.

Dr. and Mrs. R. G. Kennedy Endowed Scholarship Fund Given to one or more students preparing for areas of Christian service.

The Nelson L. & Vera B. Lee Scholarship Awarded to students preparing for the pastoral ministry, the mission field, teaching in Christian schools, or other full-time vocational Christian work and maintains a GPA of 2.0 or higher.

William M. and Ruth Ann Lewis Endowed Assistance Fund Given to students in good standing with demonstrated financial need.

George H. and Dena F. Louys Endowed Grant Fund Given to students training to be pastors or missionaries. Provided by family of Edna F. Louys.

MICAH Systems, Inc. Scholarship Fund Given to qualified computer information systems students with at least a 2.50 GPA and demonstrated financial need. Preference is given to West Virginia residents.

The Nashville Baptist Church Scholarship Fund Given to students with demonstrated financial need, with first priority given to residents of Brown County, Indiana.

Nursing Endowed Scholarship Fund Given to students with demonstrated financial need, academic progress, and potential for Christian leadership in nursing. Provided by Christian nurse friends of the College.

The Richard and Mary Olsen Scholarship Fund The recipient must demonstrate a financial need, maintain a GPA of 3.0 or above, and have completed two full academic years at Cedarville College.

The Pi Sigma Nu Scholarship Fund Given to a full-time student and member of Pi Sigma Nu, who actively participates in the goals and purposes of the organization. The student should demonstrate a financial need and maintain a GPA of 2.0 or above.

The Pleasant View Baptist Church of Wren, Ohio Endowed Scholarship Fund Given to students from this church. Others may be considered should no students from the church qualify.

Rife Endowed Scholarship Fund Awarded to students based on demonstrated financial need and donor stipulations. Established by Mrs. Ralph Rife and children.

Rooke Soccer Scholarship Fund Awarded to students who demonstrate talent and ability in soccer. For additional information contact the Athletic Department.

The Jean Scott Endowed Memorial Scholarship Fund Given to continuing students with at least a 2.50 GPA who intend to be missionaries.

James and Lorna Spencer Endowed Scholarship Given to a full-time student with demonstrated financial need.

The David W. Stahl Endowed Memorial Scholarship Fund Given to a sophomore student pursuing a music major with at least a 3.00 GPA.

Esther Stone Endowed Trust Fund Given to pre-ministerial or ministerial students with moral character, academic potential, and demonstrated financial need.

Stuck Memorial Endowed Grant Fund Given to eligible students. Established in memory of Jim Stuck.

Student Body Loan and Grant Fund Given to qualified students with financial need. Provided by the student body.

Edward J. Thomson Memorial Scholarship Given to Bible or preministerial students, nursing students and other students, in that order.

The Tindall Scholarship Fund Awarded to students with extreme and urgent needs.

Varsity C Scholarship Recipient must be an active member of Varsity C, have completed at least one full academic year, and have been involved in a summer student missions ministry.

Wickerham Memorial Endowed Grant Fund Given to students with demonstrated financial need.

Rev. and Mrs. Earl V. Willett Endowed Grant Fund Given to students in good standing. Provided by the Willetts family.

G. Marvin Wright Memorial Scholarship Given to a full-time student who maintains a GPA of 3.0 or higher and is engaged in a student ministry through the Christian Ministries Department.

Gladys York Memorial Scholarship Established in memory of Gladys York by Albert and Joanna Stevens. The recipient shall be a member or active attender of the Calvary Baptist Church of Parkertown, NJ, and be recommended by his/her pastor.

All awards are based on full-time enrollment (12 hours or more). Students who enroll for less than 12 hours will have their awards pro-rated according to the following schedule:

12 hours or more = full-time
9-11 hours = 3/4 time
6-8 hours = 1/2 time
1-5 = no award

Loan Funds

Detailed information concerning all loans including eligibility, application procedures, and repayment schedules is available from the Financial Aid Office. Several types of loans are available.

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Cedarville College Student Loans

The Bancroft Loan Fund Established to assist students who are planning to serve in some aspect of missionary service.

The James Bucholtz Memorial Loan Fund Established by the parents in memory of their son to assist eligible students.

The Jo Anne Buschmann Memorial Loan Fund Established by the parents in memory of their daughter to assist eligible students.

The Jonathan Edward Clater Memorial Loan Fund Established by Mr. Clater to assist students whose education would be interrupted by a special financial crisis.

The Fullerton Music Student Loan Fund Established to assist music majors.

The Gale Memorial Loan Fund Established by Mr. Ralph B. Gale to help eligible, needy students on a short term basis.

The Kemp Loan Fund Established by a former Financial Aid Office secretary for eligible students to use over a period of 15-30 days.

The M.K. Loan and Grant Fund Established by interested alumni missionary friends to assist children of missionary parents who meet the guidelines and who, without this help, would have difficulty meeting their educational expenses.

Nursing Student Loan Program Established to assist students pursuing a course of study leading to a baccalaureate degree in nursing.

The Polly Leunk Memorial Loan Fund Established to assist students who are unable to obtain funds through other sources.

The Frances McChesney Memorial Loan Fund Established by the Cedarville College alumni prior to 1952 to assist any eligible, deserving Greene County student.

The Miter Loan Fund Established by a friend of the College to assist eligible students.

The Science Loan Fund Established by the Science Department to assist science majors who demonstrate financial need.

The Student Body Loan and Grant Fund Established by the Class of 1972 to provide loan and grant funds to eligible students.

The Student Emergency Fund Established to provide short term loans to help students facing unanticipated emergencies.

Federal Family Education Loan Programs

Federal Stafford Student Loan funds are available to dependent and independent undergraduate students. Requests for loan assistance from this program may be made through the FAFSA. Cedarville College processes applications electronically through the Great Lakes Higher Education Corporation and its participating lenders. Applications will be mailed directly to the student from Great Lakes. The federal government will subsidize (pay) the interest on loans while the student is in school and during a six month grace period following withdrawal or graduation if the student has demonstrated financial need as determined by the FAFSA calculations. The interest rate, as of July 1, 1994, is a variable rate not to exceed 8.25%. Freshmen can borrow up to a maximum of \$2625, sophomores - \$3500, juniors and seniors - \$5500. Loan origination and insurance fees totaling 4% of the loan amount will be deducted by the lender.

Federal Unsubsidized Stafford Student Loan funds are available to students who do not qualify for all or part of the subsidized Stafford Loan on a need basis. The annual loan limits are the same, as stated above, for the subsidized, unsubsidized, or any combination of the two programs. In this program, all the terms are the same as the subsidized Stafford, however, the federal government does not cover the interest expenses while the student is in school or during the six month grace period. The student does have the option to defer payments during in-school and grace periods, however, the interest continues to accrue. **Independent students** are eligible to borrow additional funds through the Unsubsidized Stafford as of July 1, 1994. Freshmen and sophomore students may borrow an additional \$4000 and juniors and seniors can borrow an additional \$5000 per year.

Federal Parent Loan to Undergraduate Students (PLUS) funds are available to credit-worthy parents to borrow on behalf of their students. This loan program is not based on financial need and may be used to replace all or part of the expected family contribution.

Parents may borrow any amount up to the cost of education less any financial aid the student is receiving. The interest rate is a variable rate and will not exceed 9%. The lender will deduct 4% of the loan amount to cover the origination and insurance fee. Repayment does begin within 60 days following disbursement of the loan proceeds. Further information and applications for this program may be obtained by contacting the Financial Aid Office.

Students should be aware that funds awarded from these programs are considered to be awarded for the entire loan period requested by the borrower. Should the student withdraw before the end of the loan period, a proportionate refund of the loan proceeds may be returned to the lender. In addition, if a student is enrolled for less than a full academic year immediately preceding graduation, the annual loan limit may be prorated based on the number of credits remaining to complete the program of study. Specific questions relating to the federal regulations outlined above may be directed to the Financial Aid Office.

Teacher Education Loans

Teacher education majors may qualify for a \$5000 loan through their state student assistance agency and the Ohio Student Aid Commission. Specific eligibility requirements are maintained. Teacher education loans may be forgiven due to teaching service. High school guidance counselors can provide applications and information concerning this loan program.

Federal Perkins Loans

Federal Perkins Loans are available through the College to students who are citizens of the United States and who can demonstrate financial need to meet educational expenses. Detailed information is available from the director of financial aid.

The Federal Perkins Loan Fund was established to help students pursue their courses of study at their chosen institutions of higher education. A student is eligible if he is: (1) a national of the United States, in the United States for other than a temporary purpose and intends to become a permanent resident thereof, a permanent resident of the Trust Territory of the Pacific Islands, or the Northern Mariana Islands; (2) in need of the amount of the loan to pursue a course of study at an eligible institution; (3) capable, in the opinion of the institution, of maintaining good standing in such course of study; and (4) accepted for enrollment as at least a half-time undergraduate student. Continuing students must be in good standing and enrolled as at least a half-time undergraduate.

The statute governing the Federal Perkins Loan Fund does not restrict the amount which may be granted per academic year. However, the aggregate of all loans for all years from the FPLF may not exceed \$15,000 in the case of any undergraduate student.

Repayment begins nine months after graduation or when a student leaves school for other reasons. One may have up to 10 years to pay back the loan, depending upon the aggregate amount borrowed. During the repayment period, the borrower will be assessed five percent interest on the unpaid balance of the loan principle.

Exit interviews will be conducted for graduates and others at the conclusion of each quarter to explain loan deferment and cancellation provisions for borrowers who continue their education or go into certain fields of teaching or specified military duty.

Student Employment

Federal Work Study

This federally-funded program is designed to provide work opportunities for college students. Students in this program may qualify for up to thirteen hours a week during the academic year, providing they show a demonstrated need from their federal need analysis (i.e., the FAFSA). All work assignments are made by the Financial Aid Office. Actual hiring is done by the department supervisors who will employ the students. As with campus employment, actual job placement, number of hours worked, and total dollar amount earned cannot be guaranteed by the Financial Aid Office.

Campus Employment

Although not able to guarantee actual job placement, the number of hours worked, or total dollar amount earned, Cedarville College assists needy students by recommending them for part-time employment. Students are employed in various part-time jobs on campus such as maintenance, cafeteria, housekeeping, and others.

Part-time work is important not only for financial assistance but also for providing the student with the opportunity to develop discipline in managing his or her time and responsibilities. Valuable socializing skills can also be learned where students work in groups. Part-time student employment is not restricted to upper-classmen, and is encouraged at all levels. The one exception is for students in the Academic Development Program, who must have special permission from the Coordinator of Academic Progress to work during their freshman year.

Off-Campus Employment

Because of the College's reputation for attracting quality students, many area employers contact the Placement Office to employ students on a part-time basis. Sometimes students obtain work related to their fields of study and gain valuable experience as well as income. Though no formal restrictions pertain to this employment, students are encouraged to limit their working hours to approximately twenty hours per week to insure sufficient time to study.

Standards of Satisfactory Academic Progress for Recipients of Financial Aid

Policy

Financial aid recipients at Cedarville College 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.

Cedarville College recognizes that conditions which create the need for financial assistance may also create other educational needs which require extra time and slower progress in achieving educational goals. Students who, because of exceptional educational needs, must make slower progress than outlined in the policy or who find themselves victims of unusual circumstances are encouraged to discuss their situations with their academic advisors and the financial aid office. Where legally possible, because of mitigating circumstances, exemption to this policy can be considered.

When the Congress of the United States enacted the Higher Education Amendments of 1976, eligible institutions were directed to define and enforce standards of progress for students receiving federal financial assistance. The programs directly involved at Cedarville College are: (1) Federal Pell Grant, (2) The Federal Perkins Loan, (3) The Federal Supplemental Educational Opportunity Grant-FSEOG, (4) Federal Work Study-FWS, and (5) Stafford/PLUS Loans.

Full-Time Students

To be eligible for full benefits of Federal Title IV funds, undergraduate recipients of financial aid must enroll for a minimum of twelve (12) credit hours of classes during each quarter that aid is received.

All students are required to have a cumulative grade point average of 2.00 (C) in order to be graduated from Cedarville College. The following academic requirements would be appropriate in achieving this goal and fulfilling the term "carrying to completion" the required credit hours. In order to meet academic progress standards, students must complete a minimum number of credit hours based on a percentage of work to be completed and maintain a minimum cumulative grade point consistent with the requirements for graduation.

The following illustrates the academic progress policy:

Hours attempted	1-48	49-96	97-144	145-288
Completed (percent)	65%	70%	75%	80%
Completed (credits/yr)	31	34	36	38
Completed (cum credits)	31	65	101	139
Minimum cum GPA	1.70	1.90	2.00	2.00

Satisfactory academic progress means that first-time students must, after a reasonable probationary period not to exceed two quarters except in cases of mitigating circumstances, have registered the minimum cumulative grade point average each quarter thereafter above. In addition these students must complete 65% or 31 credit hours the first academic year, 70% or 34 credit hours (total of 65 credits) the second year, 75% or 36 credit hours (total of 101 credits) the third year, 80% or 38 credit hours (total of 139 credits) the fourth year.

NOTE: Cumulative grade point is measured each quarter; percentage of work or credit hours completed is measured once each academic year. It is assumed that the majority of students will graduate in the normal time frame. However, no student may continue more than six years in order to complete his/her academic program. Regardless of the credit hours a full-time student attempts, which cannot exceed 288, he/she must complete the percentage of work (credit hours) and have the appropriate cumulative grade point as stipulated.

Aid recipients who fail to complete the required number of credit hours listed above during the applicable academic year and who do not meet the minimum grade point requirements each quarter will be considered as not making satisfactory academic progress. These students will be subject to having their federal aid discontinued, unless there are mitigating circumstances involved that may affect a student's academic progress. Students who withdraw from all courses during any quarter will be required to confer with the Financial Aid Office and other appropriate offices. If permitted to continue, students who withdraw from all courses during each quarter for two consecutive quarters will be considered as not making satisfactory academic progress and will be discontinued from receiving federal financial aid.

In conjunction with school policy the grading marks F, I, and WF will not be considered as successful completion of courses attempted. Incomplete (I) grades can be considered when completed according to the provisions in the college catalog. Courses that are repeated will count in the calculation of hours attempted and completed hours earned if the student receives a passing grade; however, all grades received for the course will be included in the grade point calculation.

Credit hours in which a (CR) has been earned count toward total graduation requirements but are not used in the computation of grade point averages. Non-credit hours for which an (NC) has been earned are not used in the computation of grade point averages.

Repeat course credits earned are averaged into the cumulative grade point averages, however, credit hours are counted only once. (AU) Audit, (W) Withdrawal, (WP) Withdrawal Passing do not constitute hours attempted or completed.

Summer school credit hours earned will be included in the academic year to which summer sessions are assigned. They will be evaluated the same as hours earned in regular quarter sessions.

Part-time Students

Students who enroll for less than a full-time basis (12 credit hours per quarter) will receive proportionately less financial aid than a full-time student as dictated by lower school costs and federal regulations. Similar academic progress requirements for full-time apply to part-time enrollment on a proportional basis.

Financial aid will not be awarded to students who enroll for less than six hours of credit per quarter (half-time).

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Transfer Students

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

How to Reestablish Eligibility

When a student is denied aid because of lack of academic progress, additional courses at Cedarville must be taken at the student's own expense. This will be necessary until the minimum cumulative grade point average and the required minimum credit hours needed meet the academic progress criterion. In all cases, the student, upon completion of these requirements, must schedule an appointment with the Financial Aid Office to determine his/her future eligibility for federal assistance.

Method for Appeal

Students who have been discontinued from financial aid have a right to appeal and can do so by written notification to the director of student financial aid. All appeals must include substantive reasons for failure to comply with the provisions of this policy, and all extenuating circumstances must be supported by documentation.

The director of student financial aid will respond by letter to each appeal and either approve or disapprove the student's continuation of financial aid. Further appeals can be made to the Financial Aid Committee and to the Vice President of Student Services, if required.

Student Rights

You have the right to know what financial aid programs are available at your school.

You have the right to know the deadlines for submitting applications for each of the financial aid programs available.

You have the right to know how financial aid will be distributed, how decisions on that distribution are made, and the basis for these decisions.

You have the right to know how your financial need was determined. This includes how costs for tuition and fees, room and board, travel, books and supplies, personal, and miscellaneous expenses, etc., are considered in your budget.

You have the right to know what resources (such as parental contribution, other financial aid, your assets, etc.) were considered in the calculation of your need.

You have the right to know how much of your financial need as determined by the institution has been met.

You have the right to request an explanation of the various programs in your student aid package.

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 which could result in indictment under the U.S. Criminal Code.
3. You must return all additional documentation, verification, corrections, and/or new information requested by either the financial aid office or the agency to which you submitted your application.
4. You are responsible for reading and understanding all forms that you are asked to sign and for keeping copies of them.
5. You must accept responsibility for all agreements that you sign.
6. You must perform the work agreed upon in accepting a College 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.
9. 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.



Ministry teams travel across the country each summer. The 1994 Masters' Puppets team is pictured here in the state of Washington.

All trustees, administrators, full-time faculty, and staff support and adhere to the doctrinal statement and lifestyle commitment of Cedarville College.

Doctrinal Statement

We believe in the Scriptures of the Old and New Testaments as verbally inspired by God and inerrant in the original writings, embracing all matters which the Biblical authors address, and believe that they are of supreme and final authority in faith and life. II Timothy 3:16,17; II Peter 1:19-21.

We believe in one God-eternal, omnipotent, omniscient, and omnipresent, existing as three Persons-Father, Son, and Holy Spirit, one in nature, attributes, power, and glory. Genesis 1:1,26; Proverbs 30:4; Mark 12:29; Matthew 28:19; II Corinthians 13:14; John 1:1-4, 14,18; Acts 5:3,4.

We believe that the Lord Jesus Christ was begotten by the Holy Spirit, born of the virgin Mary, and that He is both true God and true man. Matthew 1:18-25; Luke 1:26-35; Philippians 2:6-11; Isaiah 7:14; John 1:14.

We believe in the literal 6-day account of creation, that the creation of man lies in the special, immediate, and formative acts of God and not from previously existing forms of life. Genesis 1:26,27; 2:7-9,16,17; 3:1-19.

We believe that man was created perfect in the image of God, that he sinned and thereby incurred not only physical death but also that spiritual and eternal death which is separation from God, and that all human beings are born with a sinful nature, and we are sinners in thought, word, and deed. Genesis 3:1-6; Romans 1:18,32; 3:10-19; 5:12,19.

We believe that the Lord Jesus Christ died for our sins according to the Scriptures as a representative and substitutionary sacrifice and rose again for our justification; and that all who believe in Him are justified on the grounds of His shed blood and are saved by grace through faith wholly apart from human merit and works. Acts 13:39; 16:31; Romans 3:21-28; Ephesians 2:8-10; Titus 3:3-8.

We believe that all who receive by faith the Lord Jesus are born again by the Holy Spirit through the Word of God and thereby become the children of God forever and are eternally secure. John 1:12,13; 3:3-16; 5:24; 10:28,29; I Peter 1:23; II Peter 1:4-11.

We believe that the Holy Spirit is a divine Person, equal with God the Father and God the Son; that He was active in creation; that He convicts of sin, righteousness, and judgment; that He is the Agent in the new birth; that He baptizes all believers into the body of Christ at conversion; that He indwells, seals, endues, guides, teaches, witnesses, sanctifies, and helps the believer. Psalm 139:7-12; John 14:16,17; 16:13,14; Romans 8:9; I Corinthians 6:19.

We believe that the sign gifts of the Holy Spirit are completed and are not applicable to the work of the Holy Spirit today. I Corinthians 12:8-10, 28-30; 14:1-40.

We believe in the imminent "Blessed Hope," the Rapture of the church before the tribulation, when the "Lord shall descend from heaven" to catch up His bride to meet Him in the air and "so shall we ever be with the Lord." John 14:1-3; I Thessalonians 4:13-18; I Corinthians 15:15-58.

We believe in the literal, bodily resurrection of the crucified Lord, His ascension into Heaven, His present life there as our High Priest and Advocate, and His personal, bodily, visible return to the earth at the end of the tribulation to establish His millennial Kingdom on earth, and to reign as the only Potentate, the King of Kings, and Lord of Lords. Luke 24:36-43; John 20:24-29; Acts 1:9-11; I Corinthians 15:25; Revelation 1:5-7; 19:11-16; 20:6.

We believe in the bodily resurrection of all the dead: the saved to a life of eternal glory and bliss in Heaven with God; the unsaved to eternal judgment of conscious suffering and woe in the lake of fire. John 5:28,29; Revelation 20:6,11-15; 21:1-8; Matthew 10:28; 18:8,9; 25:41,46; Mark 9:43-49; II Thessalonians 1:6-9.

We believe in personal separation from all practices and influences of the world which hinder a spirit-filled life. We believe in Biblical separation from all forms of ecclesiastical apostasy. Romans 12:1; James 4:4; I John 2:15-17; II Corinthians 6:14; 7:1; Colossians 3:1-17; Romans 6:1-14; Galatians 5:16-25.

We believe that it is the privilege and responsibility of every believer to be a personal soul winner and to do his utmost to give the gospel of Christ to the whole world. Mark 16:15; Acts 1:8; John 17:18; 20:21; II Corinthians 5:20.

We believe that the local Church is an organized congregation of immersed believers, associated by covenant, observing the ordinances of Christ, having the offices of pastor and deacon, exercising the gifts, rights, privileges, and responsibilities given them by His Word, and that it has the absolute right of self-government. We believe that the Church which is His Body includes all New Testament believers. Matthew 18:15-17; I Corinthians 1:2; 7:17; 11:16; I Timothy 3:1-15; I Corinthians 12:28; Ephesians 1:22,23; 2:14,15; 5:23-32.

We believe that the Scriptural ordinances of the local church are Baptism and the Lord's Supper; that Baptism, by immersion, should be administered to believers only, as an identifying symbol of their belief in the death, burial, and resurrection of our Lord and Savior Jesus Christ, and our death to sin and resurrection to a new walk in life, and that it is a prerequisite to local church membership; that the Lord's Supper is a commemoration of His death and should be preceded by believer's baptism and solemn self-examination. Matthew 28:19,20; Acts 8:36-39; 18:8; Romans 6:3-5; Colossians 2:12; I Corinthians 11:23-32.

Standards of Conduct

We believe that the Scriptures clearly delineate principles which govern Christian conduct. Our behavior should not hinder the faith of other believers; we should do only those things which will glorify God and which will edify both the individual and the group. We recognize that we have a responsibility to maintain an appropriate testimony before unbelievers.

We believe that to aid personal spiritual growth, for the sake of Christian testimony and the achievement of college purposes, we must abstain from the use of alcoholic beverages, tobacco, and the nonmedical use of narcotic drugs; and not participate in social dancing, gambling, attendance at movie theaters, the use of unwholesome media materials, and membership in secret societies. We also believe that Christians have an obligation to dress appropriately and to have sincere respect for the Lord's Day. We prayerfully seek to serve Christ in an atmosphere free from personal attitudes of distrust, dishonesty, selfishness, damaging criticism, disrespect, unethical conduct, and irreverence.

202 Trustees and Administration

Board of Trustees

Cedarville College 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 chairman, vice chairman, secretary, treasurer, chairmen of the standing committees, and the president of the College. The board meets quarterly in January, April, June, and October.

Officers

Paul Dixon, President
Eugene Apple (1997), Chairman
Gilbert Brueckner (1998), Vice Chairman
William Bernhard (1998), Secretary
Bill Smith (1996), Treasurer

Term of Office Ending June, 1996

Francis Bresson, Sussex, Wisconsin
Jack Cline, Rockbridge, Ohio
William Commons, Camp Hill, Pennsylvania
James Engelmann, Davison, Michigan
Joseph Godwin, Gallipolis, Ohio
David Graham, Cedarville, Ohio
Randy Patten, Fishers, Indiana
Lynn Rogers, Northfield, Ohio
William Rudd, Muskegon, Michigan
Bill Smith, Allegan, Michigan
Paul Tassell, Schaumburg, Illinois

Term of Office Ending June, 1997

Eugene Apple, Cleveland, Ohio
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Term of Office Ending June, 1998

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William Patterson, Greer, South Carolina
Gerald Smelser, Kidron, Ohio
Robert Sumner, Ingleside, Texas
Carl Umbaugh, Port Charlotte, Florida

Administration

Administrative Council

Paul H. Dixon, *President* 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.

James T. Jeremiah, *Chancellor* Graduate, Baptist Bible Seminary, 1936; B.A., Central State College, 1960; M.A., Winona Lake School of Theology, 1968; D.D., Central State College, 1961; Litt.D., Cedarville College, 1973. At Cedarville since 1953.

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

John C. Anglea, *Vice President for Business* B.S., Husson College, 1971; M.B.A., University of Dayton, 1983. At Cedarville since 1988.

Martin E. Clark, *Vice President for Development* B.A., Bob Jones University, 1967; M.A., Bob Jones University, 1968; Ed.D., Virginia Polytechnic Institute and State University, 1974. At Cedarville since 1974.

Donald W. Rickard, *Vice President for Student Services* B.A., Central State College, 1963; M.A., Eastern Michigan University, 1968. At Cedarville since 1970.

Robert K. Rohm, *Vice President for Christian Ministries*, B.A., Cedarville College, 1968; M.R.E., Grand Rapids Baptist Seminary, 1981. At Cedarville College since 1986.

Academic and Student Services

Patricia L. Bates, *Dean of Women* B.S., Ouachita University, 1968; M.S., Xavier University, 1971. At Cedarville since 1974.

Sandra G. Entner, *Director of Counseling* B.A., Cedarville College, 1959; M.S., University of Dayton, 1982. At Cedarville since 1985.

Clifford W. Johnson, *Assistant to the President* B.Ed., Western Washington University, 1949; M.Ed., Western Washington University, 1953; D.Ed., University of Washington, 1962. At Cedarville since 1962.

David M. Ormsbee, *Director of Admissions* B.A., Cedarville College, 1978; graduate study, Syracuse University, 1985-. At Cedarville since 1979.

Jonathan M. Purple, *Dean of Men* B.S., Tennessee Temple University, 1980; M.Ed., Liberty University, 1988. At Cedarville since 1991.

C.B. Hurst, *Director of Admissions and Registrar Emeritus* B.E., University of Akron, 1933; M.A., Western Reserve University, 1938. At Cedarville 1966-1973.

Library

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

Stephen P. Brown, *Senior Administrative Support Librarian; Associate Professor of Library Science*. B.S., Cedarville College, 1967; M.L.S., Indiana University, 1968. At Cedarville since 1968.

Janice M. Bosma, *Associate Director of Library Services; Associate Professor of Library Science*. B.A., Grand Rapids Baptist College, 1975; M.L.S., Western Michigan University, 1978. At Cedarville since 1982.

Carl D. Brandon, *Assistant Library Director for Media Services; Assistant Professor of Library Science*. B.S., Bob Jones University, 1969; M.A. Bob Jones University, 1970. At Cedarville since 1992.

Lynne M. Funtik, *Reference Librarian; Assistant Professor of Library Science*; B.A., Wayne State University, 1981; M.L.I.S., Wayne State University, 1984. At Cedarville since 1994.

Ruth E. Martin, *Assistant Library Director for Reader Services; Assistant Professor of Library Science*; B.A., Cedarville College, 1980; M.L.S., University of North Carolina, 1991. At Cedarville since 1991.

Alberta L. Chaffe, *Director of Library Services Emeritus* B.A., Cedarville College, 1960; M.A., Indiana University, 1963. At Cedarville 1960-1975.

Statistical Information

Fall Quarter, 1994

By Class - Men and Women

	<i>Men</i>	<i>Women</i>	<i>Totals</i>
Freshman	292	366	658
Sophomores	296	338	634
Juniors	224	288	512
Seniors	223	325	548
Adult Studies/Special	9	17	26
Totals	1044	1334	2378

By Major - Men and Women

<i>Major</i>	<i>Men</i>	<i>Women</i>	<i>Totals</i>
Accounting	69	40	109
Associate of Arts - Secretarial	0	17	17
American Studies	2	0	2
Applied Psychology	17	53	70
Behavioral Science	4	9	13
Bible - 1 year certificate	1	2	3
Bible Comprehensive	88	38	126
Bible Pre-Seminary	32	0	32
Biology	77	85	162
Broadcasting	41	18	59
Business Administration	1	2	3
Business Communications Technology	4	24	28
Business Education	0	5	5
Chemistry	20	15	35
Communications Art	32	51	83
Comprehensive Science	1	1	2
Computer Informations Systems	50	7	57
Criminal Justice	31	8	39
Electrical Engineering	68	1	69
Elementary Education	53	328	381
Engineering	14	3	17
English	12	39	51
English Education	13	50	63
Finance	33	7	40
History	18	11	29
History-Political Science	5	3	8
Interdisciplinary Studies			
International Business	16	10	26
Missiology	5	5	10
Social Science	10	6	16
Management	73	31	104
Marketing	45	21	66
Mathematics	33	32	65
Mechanical Engineering	100	4	104
Multimedia Technology	16	3	19
Music	16	32	48
Music - Church	3	1	4
Music - Education	13	22	35
Nursing	17	260	277
Philosophy	16	2	18
Physical Education	15	11	26
Physical Education - Comprehensive	13	6	19
Physical Education - Secondary	3	2	5
Political Science	15	13	28
Pre-law	17	12	29
Professional Writing	13	28	41
Psychology	19	40	59
Public Administration	4	1	5
Sociology	2	3	5
Social Science	10	6	16
Social Work	2	21	23
Spanish	4	14	18
Speech Education	2	4	6
Undecided	58	85	143

Faculty and Enrollment Comparison

<i>(full-time equivalents)</i>	<i>Student</i>	<i>Faculty</i>	<i>Ratio</i>
1980-81	1463	69	21.2
1981-82	1625	75	21.7
1982-83	1694	82	20.7
1983-84	1740	89	19.6
1984-85	1775	93	19.1
1985-86	1782	93	19.2
1986-87	1802	94	19.2
1987-88	1793	95	18.9
1988-89	1822	99	18.4
1989-90	1907	99	19.3
1990-91	1897	105	18.1
1991-92	2031	105	18.1
1992-93	2165	123	17.2
1993-94	2278	130	17.1
1994-95	2378	131	18.1

By State - Men and Women

	<i>Men</i>	<i>Women</i>	<i>Totals</i>
Alabama	1	1	2
Alaska	2	4	6
Arizona	3	2	5
Arkansas	2	3	5
California	10	24	34
Colorado	5	4	9
Connecticut	3	6	9
Delaware	3	1	4
Florida	21	20	41
Georgia	1	2	3
Hawaii	1	0	1
Idaho	1	2	3
Illinois	37	55	92
Indiana	71	98	169
Iowa	14	24	38
Kansas	3	4	7
Kentucky	1	5	6
Louisiana	0	1	1
Maine	11	20	31
Maryland	13	26	39
Massachusetts	11	10	21
Michigan	113	150	263
Minnesota	5	17	22
Mississippi	0	1	1
Missouri	5	5	10
Montana	5	3	8
Nebraska	2	7	9
New Hampshire	11	14	25
New Jersey	32	42	74
New Mexico	1	2	3
New York	65	80	145
North Carolina	7	5	12
Ohio	375	452	827
Oklahoma	0	1	1
Oregon	1	5	6
Pennsylvania	91	121	212
Rhode Island	3	1	4
South Carolina	6	2	8
Tennessee	6	9	15
Texas	6	7	13
Utah	1	0	1
Vermont	12	10	22
Virginia	22	22	44
Washington	15	9	24
West Virginia	16	17	33
Wisconsin	16	24	40
Wyoming	1	0	1
Subtotals	1031	1316	2347
Foreign Residence	13	18	31
Totals	1044	1334	2378

**Double majors are included in the totals given

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By Age - Men and Women

Years	Men	Women	Totals
15	0	1	1
17	5	8	13
18	166	261	427
19	256	320	576
20	234	305	539
21	196	283	479
22	90	88	178
23	32	27	59
24	14	8	22
25-29	31	12	43
30+	20	21	41
Totals	1044	1334	2378

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The Yellow Jacket, the College's mascot and number one fan at home basketball games, also makes an appearance at the annual Homecoming Parade each fall.

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Correspondence Directory

Academic Counseling

Pamela Johnson
Coordinator of Academic Progress
513/766-7765

Academic Records/Transcripts

Jack Campbell
Registrar
513/766-7710

Admissions

David Ormsbee
Director of Admissions
800/233-2784

Alumni Relations

Jane Adams Smith
Director of Alumni Relations
513/766-7858

Jeffrey Brock
Senior Annual Fund Officer
513/766-7800

Athletics

Donald Callan
Athletic Director
513/766-7755

Campus Activities

Richard Walker
Director of Campus Activities
513/766/7955

Career Services

David Gaffner
Director of Career Services
513/766-7868

Christian Ministries

Robert Rohm
Vice President for Campus
Ministries
513/766-7709

Counseling Services

Sandra Entner
Director of Counseling Services
513/766-7855

Curriculum

Duane Wood
Academic Vice President
513/766-7770

Estates and Planned Giving

Office of Planned Giving
513/766-7804

Financial Aid

Fred Merritt
Director of Financial Aid
800/444-2433

Food Service

Charles McKinney
Director of Food Service
513/766-7890

Honors Program

Daniel Estes
Director of the Honors Program
513/766-7978

Institutional Research

Jack Riggs
Director of Institutional Research
513/766-7785

Library

Lynn Brock
Director of Library Services
513/766-7846

Patterson Clinic

S. Katy Skillman
Director of Patterson Clinic
513/766-7862

Personnel

Timothy Bosworth
Director of Staff Personnel
513/766-7885

Physical Plant

Leigh Hunt
Director of Construction
513/766-7818

Rolan Polsdorfer
Director of Physical Plant
513/766-7772

Planning

Lynn Brock
Director of Planning
513/766-7846

Public Relations

Roscoe Smith
Director of Public Relations
513/766-7808

Student Accounts

Thomas Ahlgrim
Manager of Student Accounts
513/766-7827

Student Life, Housing

Patricia Bates
Dean of Women
513/766-7872

Jonathan Purple
Dean of Men
513/766-7872

Summer School

Kevin Sims
Director of Summer School
and Continuing Education
513/766-7933

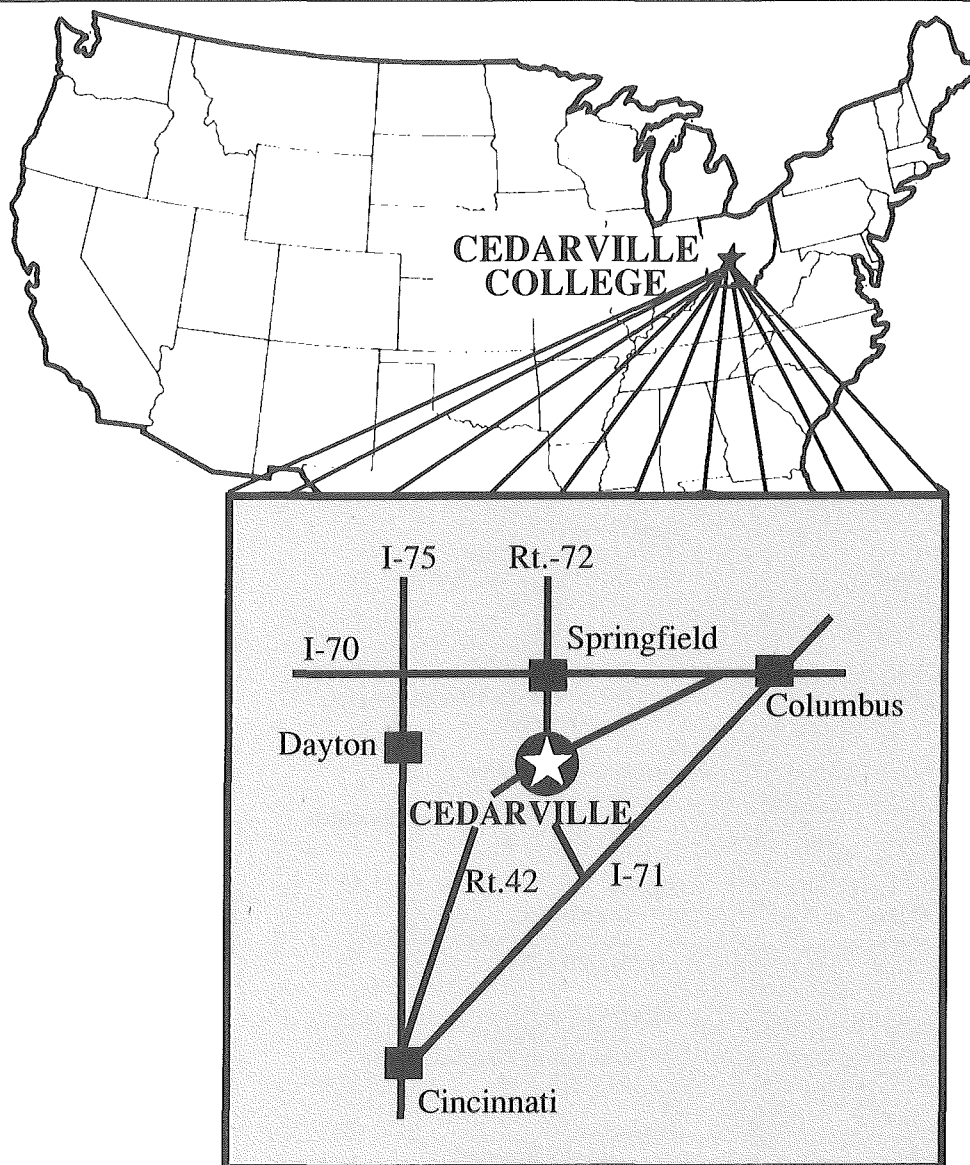
Veterans Benefits

Fran Campbell
513/766-7710

WCDR-FM

Paul Gathany
General Manager
800/333-0601

208 Directions



Directions to Cedarville College

Cedarville College is located in the middle of a triangle formed by Interstates 70, 71, and 75.

From the North

I-75 south to I-70 east; travel approximately 24 miles to the Springfield/Cedarville exit (Rt. 72); travel south 11 miles on Rt. 72 to the campus.

From the South

I-75 north to Cincinnati; merge with I-71; take I-71 north to the Lebanon exit (Rt. 48); travel on Rt. 48 north 5 miles to Rt. 42 north; proceed approximately 25 miles to Cedarville; turn left on Rt. 72 north and proceed three blocks to the campus.

From the East

I-70 west to the Springfield/Cedarville exit (Rt. 72); travel south 11 miles on Rt. 72 to the campus.

From the West

I-70 east to the Springfield/Cedarville exit (Rt. 72); travel south 11 miles on Rt. 72 to the campus.

Traveling by Air

The nearest commercial airport is Dayton International Airport in Dayton, Ohio, which is a 45-minute drive from the campus.

Traveling by Bus

Both Greyhound and Trailways Bus Lines have terminals in Springfield.

Transportation from the airport and bus terminal may be arranged by contacting the Admissions Department at 1-800-Cedarville.

Academic and Administrative Buildings

1. Founders Hall
2. Post Office, CDR Radio Network
3. College Center, Dining Hall
4. Bookstore
5. Williams Hall
6. Collins Hall
7. Milner Business Administration Building
8. Engineering, Nursing, Science Center
9. Library
10. Chapel
11. Patterson Clinic
12. Ambassador Hall
13. Alford Auditorium
14. West Hall
15. Service Center
16. Tibbetts Hall, Cedars
(open Fall 1996)
17. Ministry Center

Residence Halls

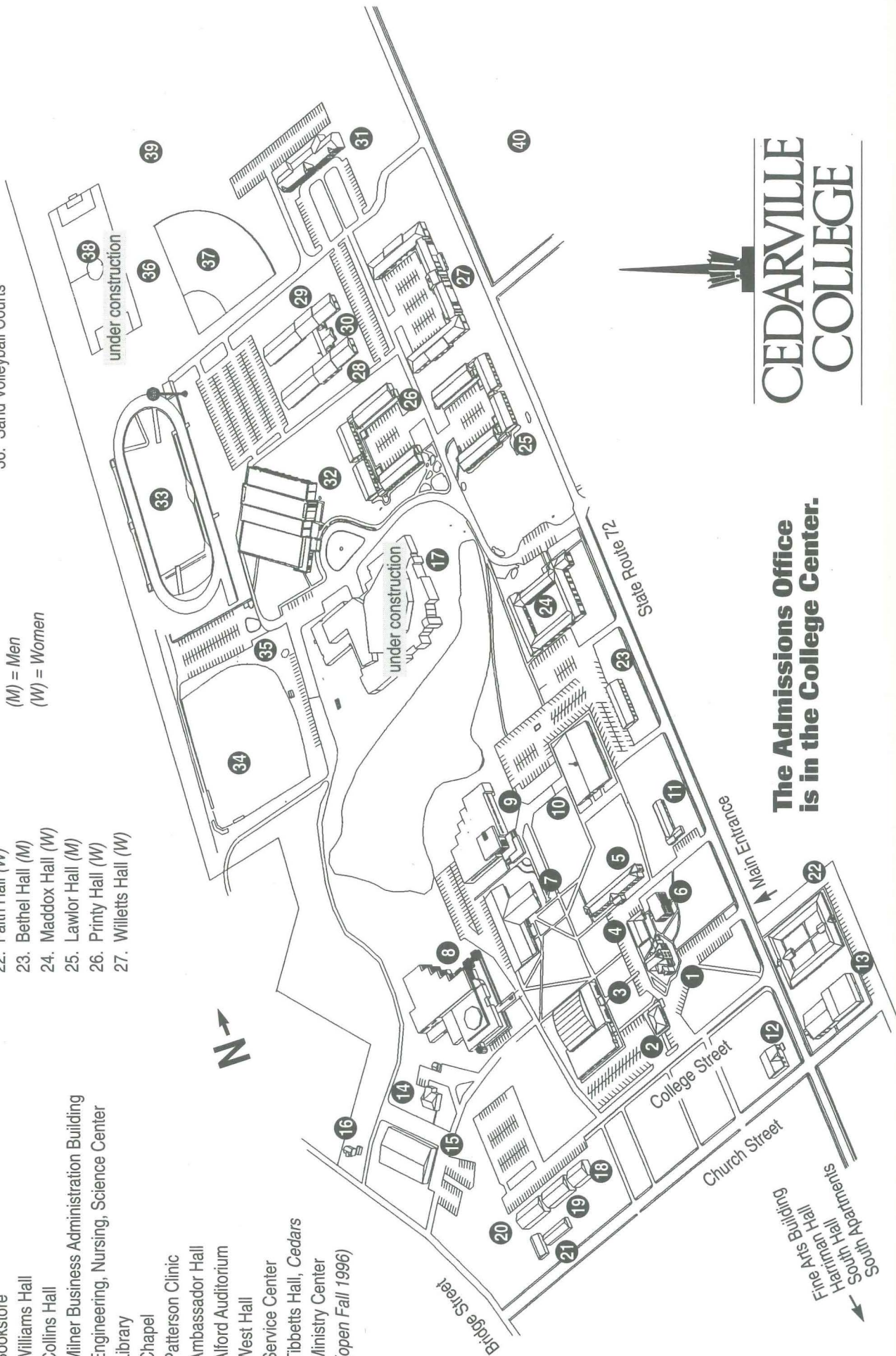
18. Rogers Hall
19. Marshall Hall } The Hill (M)
20. Carr Hall
21. Palmer Apartments (M)
22. Faith Hall (W)
23. Bethel Hall (M)
24. Maddox Hall (W)
25. Lawlor Hall (M)
26. Printy Hall (W)
27. Willetts Hall (W)

(M) = Men
(W) = Women

Athletic Facilities

28. McKinney Hall (W)
29. McChesney Hall (M)
30. Miter Conference Center
31. Brock Hall (M)
32. Athletic Center
33. Track
34. Baseball Field
35. Concession Stand
36. Sand Volleyball Courts
37. Softball Field
38. Soccer Field
39. Tennis Courts
40. Intramural/Soccer Fields

(M) = Men
(W) = Women



**CEDARVILLE
COLLEGE**

**The Admissions Office
is in the College Center.**

Be Our Guest

Prospective students find that a visit to our campus is of great value in finalizing their decisions about college. Therefore, make plans now to spend a day with us. While you're here, you may:

- Join us for chapel at 10 a.m.
- Tour our campus.
- Visit a class or two.
- Talk with a professor in your field of interest.
- Discuss financial aid opportunities.
- Attend an admissions presentation.
- Speak with a coach in your sport.
- Eat in our dining hall.
- Participate in one of the evening activities.
- Spend a night in one of our residence halls.

Just let us know when you are coming and we'll make the appropriate arrangements. Our office is open Monday through Friday 8 a.m.-5 p.m. and by appointment on Saturday.



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Admissions

Cedarville College
P.O. Box 601
Cedarville, OH 45314-0601

1-800-CEDARVILLE