George Fox University

Undergraduate Catalog

2009-10

GEORGE FOX
UNIVERSITY

2009-2010 Undergraduate Catalog

Table of Contents

Table of Contents 1
President's Message 2
University Profile 3
Learning Environment 14
Financial Information 20
Academic Personnel 21
Admissions 23
Student Life 28
Academic Support Programs 33
Academic Programs 42
- Biology Majors and Minors 46
- Business and Economics Majors and Minors 51
- Chemistry Majors and Minors 57
- Communication Arts Majors and Minors 60
- Computer and Information Science Majors and Minors 71
- Teacher Education Majors and Minors 74
- Engineering Majors and Minors 78
- Family and Consumer Sciences Majors and Minors 82
- Health and Human Performance Majors and Minors 87
- History Majors and Minors 94
- International Studies Majors and Minors 95
- Mathematics Majors and Minors 97
- Nursing Majors and Minors 98
- Performing Arts Majors and Minors 101
- Political Science Majors and Minors 111
- Psychology Majors and Minors 114
- Religious Studies Majors and Minors 118
- Sociology/Social Work Majors and Minors 128
- Visual Arts Majors and Minors 132
- Writing/Literature Majors and Minors 135

Course Descriptions 138
Degrees Offered 264
Major and Minor Requirements 264
Graduation Requirements 265
General Education Program 266
General Education Requirements 267
Course Challenge Programs 271
Course Numbering System 273
Preprofessional Programs 274

President's Message

George Fox University is becoming one of the nation's premier institutions of Christian higher education. We offer an environment that nurtures and develops the whole person. At George Fox, we see the world through the lens of the living Christ. In our pursuit of truth, we seek the wisdom to know how best to serve humanity in the light of Christ and his kingdom. We believe that God has created each person to serve and love the people and world he has created.

It is our greatest hope that a George Fox education prepares students to face the challenges of our changing society and prepares them to engage the culture from deeply held Christian convictions and with the knowledge and skills to make a difference. Whether students are in graduate or in undergraduate programs, the dedicated faculty at George Fox University will teach effectively and guide students onto a path where they will find their calling in Christ and learn to serve the community for a lifetime.

Robin Baker, President
George Fox University

University Profile

Accreditation and Memberships

George Fox University is accredited by the Northwest Commission on Colleges and Universities, by the Oregon Teacher Standards and Practices Commission for the preparation of teachers in specific fields, and by the National Association of Schools of Music. It is approved by the U.S. government and the states of Oregon and Idaho for the education of veterans, and by the U.S. attorney general for the admission of international students.
The university is a member of the national Christian College Consortium, the Council of Independent Colleges Northwest Conference, the Council for Christian Colleges and Universities, the Association of American Colleges, the College Scholarship Service, the American Association for Higher Education, the Friends Association for Higher Education, the National Association of Evangelicals, the National Collegiate Athletic Association, the Northwest Conference, the National Association of Independent Colleges and Universities, the Council of Independent Colleges, the Evangelical Teacher Training Association, the Northwest Association of Private College and University Libraries, the Oregon Independent Colleges Association, the Oregon Independent College Foundation, the National Council of Schools and Programs of Professional Psychology, and the Council of Graduate Departments of Psychology.
The undergraduate athletic training education program is accredited by the Commission on Accreditation of Athletic Training Education.

The undergraduate engineering program is accredited by the Engineering Accreditation Committee of the Accreditation Board for Engineering and Technology.

The undergraduate music program is accredited by the National Association of Schools of Music.

The undergraduate nursing program is accredited by the Commission on Collegiate Nursing Education.

The undergraduate social work program is accredited by the Council on Social Work Education.

The School of Education is accredited by the National Council for Accreditation of Teacher Educaton (NCATE).

The School of Education is also approved by the Oregon Teacher Standards and Practices Commission (TSPC) for the preparation of early childhood and elementary teachers at the undergraduate and graduate levels and for the preparation of middle and high school level teachers in specific fields at the graduate level. TSPC has also
approved the School of Education for the preparation of principals, superintendents, and other administrators as well as school counselors and school psychologists.

The school counseling and school psychology degrees and certificates fulfill all the educational requirements for licensure by the Teacher Standards and Practices Commission (TSPC).

George Fox Evangelical Seminary is accredited by the Association of Theological

Schools in the United States and Canada.
The Graduate School of Clinical Psychology is accredited by the American Psychological Association. Doctor of Psychology (PsyD) degrees fulfill all the educational requirements for licensure by the Oregon Board of Psychology Examiners and for listing in the National Council of Health Service Providers in Psychology.

Counseling and marriage and family therapy degrees fulfill all the educational requirements for licensure by the Oregon Board of Licensed Professional Counselors and Therapists.

The play therapy certificate fulfills all the educational requirements to become a Registered Play Therapist (RPT) through the Association for Play Therapy (APT).

The other 12 members of the Christian College Consortium are Asbury College, Wilmore, Ky.; Bethel College, St. Paul, Minn.; Gordon College, Wenham, Mass.; Greenville College, Greenville, Ill.; Houghton College, Houghton, N.Y.; Malone College, Canton, Ohio; Messiah College, Grantham, Pa.; Seattle Pacific University, Seattle, Wash.; Taylor University, Upland, Ind.; Trinity College, Deerfield, Ill.; Westmont College, Santa Barbara, Calif.; and Wheaton College, Wheaton, Ill.

The Council for Christian Colleges and Universities, based in Washington, D.C., was founded in 1976. Each of the more than 100 U.S. member institutions is committed to academic excellence and to the integration of faith, learning, and living. The coalition, comprising four-year liberal arts colleges and universities with regional accreditation, provides a medium for strengthening and unifying this important sector of private higher education.

Statement of Faith

The Trinity
We believe in one eternal God, the source and goal of life, who exists as three persons in the Trinity: the Father, the Son, and the Holy Spirit. In love and joy, God creates and sustains the universe, including humanity, male and female, who are made in God's image.

God the Father
We believe in God the Father Almighty, whose love is the foundation of salvation and righteous judgment, and who calls us into covenant relationship with God and with one another.

God the Son
We believe in Jesus Christ, the Word, who is fully God and fully human. He came to show us God and perfect humanity, and, through his life, death, and resurrection, to reconcile us to God. He is now actively present with us as Savior, Teacher, Lord, Healer, and Friend.

God the Holy Spirit
We believe in the Holy Spirit, who breathed God's message into the prophets and apostles, opens our eyes to God's Truth in Jesus Christ, empowers us for holy living, and carries on in us the work of salvation.

Salvation
We believe that salvation comes through Jesus Christ alone, to whom we must respond with repentance, faith, and obedience. Through Christ we come into a right relationship with God, our sins are forgiven, and we receive eternal life.

The Bible
We believe that God inspired the Bible and has given it to us as the uniquely authoritative, written guide for Christian living and thinking. As illumined by the Holy Spirit, the Scriptures are true and reliable. They point us to God, guide our lives, and nurture us toward spiritual maturity.

The Christian Life
We believe that God has called us to be and to make disciples of Jesus Christ and to be God's agents of love and reconciliation in the world. In keeping with the teaching of Jesus, we work to oppose violence and war, and we seek peace and justice in human relationships and social structures.

The Church
We believe in the church as the people of God, composed of all who believe in Jesus Christ, who support and equip each other through worship, teaching, and accountability, who model God's loving community, and who proclaim the gospel to the world.

Christian Worship
We believe Christ is present as we gather in his name, seeking to worship in spirit and in truth. All believers are joined in the one body of Christ, are baptized by the Spirit, and live in Christ's abiding presence. Christian baptism and communion are spiritual realities, and, as Christians from many faith traditions, we celebrate these in different ways.

The Future
We believe in the personal return of Jesus Christ, in the resurrection of the dead, in God's judgment of all persons with perfect justice and mercy, and in eternal reward and punishment. Ultimately, Christ's kingdom will be victorious over all evil, and the faithful will reign with him in eternal life.

Our Heritage

More than a century ago, early Oregon Quaker pioneers helped settle the rich and fruitful Chehalem Valley of Oregon. One of their first priorities, along with the founding of their church, was the education of their children. In 1885, the Christian instruction of their offspring was assured with the establishment of Friends Pacific Academy. At the same time, founding pioneers were looking ahead with a dream of a college to provide more advanced education. That time came Sept. 9, 1891, with the opening of the doors of Pacific College. Fifteen students were counted on opening day.

In the 116 years since George Fox University's founding, major changes have included the name of the university itself. Retitled in 1949 because of the many "Pacific" colleges, the school was named in honor of the founder of the Friends Church. The name changed again in July 1996 when George Fox College became George Fox University, incorporating Western Evangelical Seminary.

From only a handful of courses in the 1890s, the university now offers 38 undergraduate majors, and graduate programs in psychology, counseling, education, business, ministry, and religion. Over the years, more than 16,000 students have called this institution their alma mater.

George Fox has grown rapidly in the last two decades - both in reputation and facilities. *U.S. News & World Report* for 19 years has named George Fox "One of America's Best Colleges." In 2005, George Fox ranked in the top tier in the category of Best Universities - Master's, West Region. National recognition also has come from the John Templeton Foundation, which selected George Fox as one of 100 in its Honor Roll of

Character-Building Colleges.

Following a series of campus master plans, George Fox has expanded in recent years to now include 70 buildings on approximately 108 acres. The most recent expansion
is the 2006 purchase of an adjacent eight acres formerly occupied by Providence Newberg Hospital. The growth to the east incorporates tree-filled Hess Creek Canyon within the main campus. The canyon formerly served as the campus' eastern boundary. A 24-acre tract north of the campus also is to be developed into a new athletic field complex. More than 3,000 students come to George Fox from across the nation to participate in the experience of sharing faith and learning with dedicated faculty and administrators.

Even as it expands its mission by offering graduate programs and serving adult learners, George Fox remains committed to providing more than 1,500 traditional undergraduate students with a residential campus atmosphere in Newberg. There, learning continues outside the classroom - as well as inside - through a variety of experiences including music, athletics, clubs and organizations, special events, and Christian ministries.

The Christian atmosphere is a campus priority. With other Christians, the university holds to the historic truths and teachings of Christianity, as outlined in the statement of faith. From its founding, the university has been guided by Northwest Yearly Meeting of Friends Church. It historically has emphasized the necessity of a genuinely experiential Christian faith, personal integrity and purity, the spiritual nature of the ordinances, the importance of peacemaking and responsible social action, the involvement of women in ministry and leadership, the valuing of simplicity, and the right and duty of each person to hear and follow God's call.

George Fox University has more Friends students on campus than any other college in the United States. They represent approximately 5 percent of the student body. Altogether, more than 50 denominations are represented on campus. Denominations with a significant enrollment include the Evangelical Church of North America, Free Methodist, Nazarene, Presbyterian, Disciples of Christ, Mennonite, United Methodist, Assemblies of God, Christian and Missionary Alliance, Catholic, Lutheran, American Baptist, Conservative Baptist, Church of God, and Foursquare. There are also numerous students who attend independent churches.

Locations

George Fox University serves students at a number of locations in the Pacific Northwest, including its Portland Center, Salem Center, Boise (Idaho) Center, and teaching sites in other Oregon communities. Its residential undergraduate campus is in Newberg, Ore., in the lower Willamette Valley, on an 108-acre tree-shaded campus in a residential neighborhood. This area offers a variety to meet most interests. Newberg is a friendly community close (23 miles) to a major metropolitan environment of 1.9 million people. It is located in the beauty of the Pacific Northwest, with nearby mountain ranges for skiing and easy access to rugged coastal beaches just an hour away.

Oregon - 97,060 square miles of variety - stretches from the Pacific Coast, over the Coast Range, through the fertile Willamette Valley, past the snowcapped Cascades, and into the high desert country of central and eastern Oregon. More than half of the student body call Oregon home. Others come to school in Oregon and decide to make it their new home - despite the fabled rain. Yes, there is rain, and sometimes it falls hard in the valley between the mountain ranges where George Fox University is located.
But it is the rain that makes Oregon green and gives it natural beauty. Umbrellas and raincoats do come in

handy during the winter months, but when the sun comes out, Oregon is spectacular - and it's worth the wait. Just ask the visitors who make tourism one of the state's largest industries, along with high technology, forest products, and agriculture.

Just a half-hour drive from the campus, metropolitan Portland is George Fox's big-city neighbor. In 2000, Portland topped *Money* magazine's list of "Best Places to Live in the U.S." Oregon's largest city, Portland, offers its Old Town district, the Tom McCall Waterfront Park, numerous art galleries and museums, a number of theatre groups and jazz clubs, and a world-class symphony, ballet, and opera. Other attractions include the Oregon Zoo, the Japanese Garden, the International Rose Test Gardens, and the Oregon Museum of Science and Industry. Every June the city holds its Rose Festival, with three parades, a coronation, and 25 days of festival events.

For those who love the outdoors, Portland has 9,400 acres of parks, including Mill Ends Park, the smallest in the world, and Forest Park, named "Best Urban Park in the U.S." And George Fox students can join in the enthusiasm of cheering for the Portland Trail Blazers NBA team, the Portland Winter Hawks WHL ice hockey squad, and the Portland Beavers Triple-A minor league baseball team.

Despite the numerous Portland advantages, many students prefer the small-town flavor of Newberg. Located on the Willamette River, Newberg has a population of 20,000, with many residents living in Newberg and commuting to Portland for their jobs. Historic downtown Newberg consists of a variety of stores, shops, and services. Friendly merchants who appreciate the university's students are just a few blocks south of the campus, with most businesses within walking distance. It's a personable town, rich in tradition-former President Herbert Hoover once lived here.

The Newberg-Portland area has a mean daily high temperature in July of 83 degrees and a mean daily low in January of 32 degrees. Precipitation averages 37 inches a year, most of which is rain. While Newberg does get snow, it is seldom more than a few inches a year and rarely lasts more than a couple of days.

Mission, Vision and Values

Mission Statement

George Fox University, a Christ-centered community, prepares students spiritually, academically, and professionally to think with clarity, act with integrity, and serve with passion.

Vision

Our vision is to become one of the most innovative and engaging universities in the western United States known for academic excellence and for connecting the message of Jesus Christ to the global challenges and opportunities of the future.

Our Values

Living like Christ as Agents of Love and Reconciliation
We are a Christ-centered university rooted in the Friends tradition. We take seriously the challenge of Jesus Christ to be God's agents of love and reconciliation in the world.

Creating a Transformational Learning Community
We maintain the highest standards for serving our community's academic and spiritual needs. We will continue to attract and nurture an authentic wisdom community of faculty and staff dedicated to providing a dynamic, diverse, and holistic spiritual and educational experience.

Pursuing Scholarly Inquiry
As a university, we seek to advance knowledge by engaging in and supporting scholarship. Working from Christian premises, we attempt to better understand God and God's creation. Doing so helps us to teach and serve others more effectively.

Engaging Globally and Connecting Culturally
We value worldwide experiential learning aimed at understanding and improving the human condition. We desire to connect genuinely with people from diverse cultures both locally and globally through relationships and reciprocal teaching and learning.

Reflecting the Diversity of God's People
All people are created in God's image. Therefore, George Fox University represents the ethnic, socio-economic, cultural, and gender diversity of the broader Kingdom of God. We provide opportunities for students to dialogue about issues of diversity and to live and study in diverse communities.

Preparing Innovators and Risk Takers in Pursuit of God's Kingdom
Our community inspires and equips students and employees to take responsible risks in pursuit of God's kingdom and to discover creative ways to fulfill Christ's purposes in our university life and the world around us.

Serving and Leading in Communities of Trust
We strive to be a community of trust, camaraderie, and respect where we practice collaborative leadership. We value the contributions of students, faculty, staff, administrators, and trustees and find unity through serving one another.

Promoting Peace, Justice, and Care of the Earth

Jesus Christ calls us to be peacemakers, to serve the poor, and to engage our world responsibly. We are a community that actively creates peace, promotes justice, and cares for the earth.

Student Outcomes

In any enterprise involving students of varied preparedness, motivation, and discipline, there will be differences in outcomes. Education is realistic and idealistic. It reaches beyond the average, the assured, and the guaranteed. University objectives - indeed
the entire catalog - may be seen as sincere intention to provide an educational program of high quality. Accountability to students is fulfilled by providing qualified teachers, a community with Christian values, and the historical continuity of a Quaker university. The opportunity for personal growth and development is here, yet student initiative and responsibility are vital. The catalog is not an unconditional contract

Values Statement

The George Fox University community values...

- Following Christ, the Center of Truth
- Honoring the worth, dignity, and potential of the individual
- Developing the whole person - spirit, mind, and body
- Living and learning in a Christ-centered community
- Pursuing integrity over image
- Achieving academic excellence in the liberal arts
- Preparing every person to serve Christ in the world
- Preserving our Friends (Quaker) heritage

Compliance With Federal Laws and Regulations

George Fox University does not discriminate against students on the basis of race, color, national or ethnic origin, gender, age, disability, or any other status to the extent prohibited under applicable nondiscrimination law in the administration of its admission policies, scholarship and loan programs, educational programs, athletics programs, cocurricular activities, or other university-administered programs.
The following offices may be contacted for information regarding compliance with legislation:

- Director of admission: student consumer information
- Vice president for finance: wage and hour regulations, The Civil Rights Act of 1964 (race, color, or national origin), and age discrimination
- Vice president for student life: Title IX (nondiscrimination on the basis of gender)
- Director of Student Financial Services: Title IV (Higher Education Act of 1965 as amended), student consumer information, the Pell Program, Supplementary Educational Opportunity Grants, the Perkins Loan/Direct Loan Program, the Stafford Loan Program, the Parents Loan for Undergraduate Students Program, and the Supplemental Loans for Students Program
- Registrar: Rehabilitation Act of 1973, veterans' benefits, Immigration and Naturalization Act, and the Family Educational Rights and Privacy Act

Disabled Students

The Office of Student Life coordinates services for disabled students. This office also promotes campus awareness of issues and needs of disabled students. Supportive services may be provided, depending on the nature of the disability and availability of resources. Documentation of an existing disability generally will be required.

Specific courses on career exploration, study skills, and writing development are available. Special adaptive physical education classes for students with disabilities are offered through the Department of Health and Human Performance.

Interested students should contact Disability Services and provide documentation of disability and information concerning desired accommodations. Students are encouraged to contact Disability Services as early as possible to make arrangements for necessary support services.

Drug-Free Environment

George Fox University is concerned about the intellectual, physical, psychological, and spiritual well-being of all its students and employees. The community recognizes the danger to one's physical and psychological well-being presented by the use of certain products. Therefore, members of the community are prohibited from using illicit or nonprescribed drugs and substances (including marijuana or narcotics). Under no circumstances are the above to be used, possessed, or distributed on or away from campus. Community members are also expected not to abuse the use of legal substances. For information concerning disciplinary actions, please refer to the student and employee handbooks. Students and employees are provided annually a resource guide concerning drug and alcohol issues.

Anti-Harassment Policy

George Fox University students work in an environment where the dignity of each individual is respected. Demeaning gestures, threats of violence, or physical attacks directed toward another person are not tolerated. This includes hazing or other initiations or any actions that may be hazardous, dehumanizing, harassing, or humiliating to community members. Also included is the use of telephones, United States or campus mail, or e-mail for the purpose of issuing obscene, harassing, or threatening messages. Also, vandalism of property is unacceptable.
Harassment due to race, color, sex, marital status, religion, creed, age, national origin, citizenship status, workers' compensation status, physical or mental disability, veteran's status, or any other status protected under applicable local, state, or federal law is prohibited.
A person may commit criminal harassment if he or she intentionally harasses or annoys another person by:

- Subjecting another person to offensive physical contact
- Publicly insulting another person with abusive words or gestures in a manner intended and likely to provoke a violent response

Sexual Harassment

Unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature may constitute sexual harassment when:

1. Submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment or academic status;
2. Submission to or rejection of such conduct by an individual influences employment or academic status decisions affecting such individual; or
3. Such conduct has the purpose or effect of interfering with an individual's work performance or creating an intimidating, hostile, or offensive work, academic, or student life environment.

The conduct prohibited may be verbal, visual, or physical in nature. It includes unwelcome sexual advances, requests for sexual favors, physical touching, or the granting or withholding of benefits (e.g., pay, promotion, time off, and grades) in response to sexual contact. More subtle forms of inappropriate behavior such as offensive posters, cartoons, caricatures, comments, and jokes of a sexual nature are prohibited, as they may constitute sexual harassment when they contribute to a hostile or offensive work, academic, or student life environment.

Complaint Procedure for Harassment

If any employee or student believes he or she has witnessed discrimination or harassment, has been discriminated against, or has been subjected to sexual or other forms of harassment, the person should immediately report it as follows:

1. If the alleged incident involves two students (outside the context of student employment), the vice president for student life or the dean of students should be contacted.
2. If the alleged incident involves a student and a faculty member, the academic dean, the provost, or the vice president for student life should be contacted.
3. If the alleged incident involves one or more support staff, administrators, faculty members, or student employees, then a supervisor, the director of human resources, the provost, or any vice president should be contacted.

Complaints are to be investigated promptly and appropriate corrective action taken. No one will suffer retaliation for reporting concerns about discrimination or harassment.
Retaliation is prohibited for good-faith reporting of concerns about discrimination or harassment. Employees who are asked to testify during an investigation are expected to cooperate fully. Retaliation against them for doing so is not tolerated. Any employee found to have engaged in discrimination, harassment, or retaliation is subject to immediate disciplinary action as deemed appropriate by the university, up to and including termination.

Family Educational Rights and Privacy Act

George Fox University accords all the rights under the Family Educational Rights and Privacy Act (FERPA) to students who are enrolled. No one shall have access to, nor does the institution disclose any information from, students' education records without the written consent of students except to personnel within the institution with direct educational interest, to persons or organizations providing students' financial aid, to accrediting agencies carrying out their accreditation function, to persons in
compliance with a judicial order, and to persons in an emergency in order to protect the health or safety of students or other persons. All these exceptions are permitted under the Act.

Students are afforded the right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception that permits disclosure without consent is disclosure to school officials with legitimate education interests. A school official is a person employed by the university in an administrative, supervisory, academic or research, or support staff position; a person serving on the board of trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an educational record in order to fulfill his or her professional responsibility. Upon request, the university may disclose educational records without consent to officials of another school in which a student seeks or intends to enroll.

At its discretion, George Fox University may provide "directory information" in accordance with the provisions of the Act. Directory information is defined as that information which would not generally be considered harmful or an invasion of privacy if disclosed. The university construes the following information to be "directory information": parents' names and addresses; the student's name, permanent address, local address, temporary address, e-mail address, telephone number, date and place of birth, participation in officially recognized activities and sports, major, dates of attendance, full-time and part-time status, degrees and awards received, class year, the most recent previous school attended, and for members of athletics teams, height, weight, and position played. The university also considers photographs to be directory information. As such, release of photographs also is permitted.

Students may restrict the release of their directory information to third parties by annually submitting a signed and dated statement to the registrar's office within the first two weeks of the semester. Otherwise, all photographs and information listed above are considered as "directory information" according to federal law. Nondirectory information, notably grade records, is released to third parties only on written request of the student, or otherwise required by law (e.g., subpoena).

The law provides students the right to inspect and review information contained in their education records, to challenge the contents of their education records, to have a hearing if the outcome of the challenge is unsatisfactory, and to submit explanatory statements for inclusion in their files if they feel the hearing panel's decisions are unacceptable. Additional information regarding the hearing procedures will be

provided to the student when notified of the right to a hearing.

The registrar's office at George Fox University has been designated by the institution to coordinate the inspection and review of procedures for student education records, which include admission, personal, and academic files, and academic, cooperative education, disciplinary records, and placement records. Students wishing to review their education records must give a written request to the registrar listing the item or items.

of interest. Only records covered in the Act are made available within 45 days of the request. Education records do not include student health records, employment records, alumni records, or records of instructional, administrative, and educational personnel that are the sole possession of the maker and are not accessible or revealed to any individual except a temporary substitute. Health records, however, may be reviewed by physicians of the student's choosing.

Students may not inspect and review the following as outlined by the Act: financial information submitted by their parents; confidential letters and recommendations associated with admission, employment, or job placement, or honors to which they have waived their rights of inspection and review; or education records containing information about more than one student, in which case the institution permits access only to that part of the record that pertains to the inquiring student.

Complaints of Alleged Violations
Complaints of alleged violations may be addressed to: Family Policy Compliance Office
US Department of Education
400 Maryland Avenue, SW Washington, DC 20202-5901

Complaints must:

- Be timely submitted, not later than 180 days from the date you learned of the circumstances of the alleged violation
- Contain specific allegations of fact giving reasonable cause to believe that a violation has occurred, including:
    - Relevant dates, such as the date of a request or a disclosure and the date the student learned of the alleged violation
    - Names and titles of those school officials and other third parties involved
    - A specific description of the education record around which the alleged violation occurred
    - A description of any contact with school officials regarding the matter, including dates and estimated times of telephone calls and/or copies of any correspondence exchanged between the student and the school regarding the matter
    - The name and address of the school, school district, and superintendent of the district
    - Any additional evidence that would be helpful in the consideration of the complaint

(Adapted from: A Guide to Postsecondary Institutions for Implementation of the Family Educational Rights and Privacy Act of 1974, American Association of Collegiate Registrars and Admissions Officers, 1990.)

Learning Environment

George Fox University offers a learning environment designed to facilitate the learning that occurs at the university. We recognize the varied nature of the learning that happens as part of an education as well as the resources needed to accomplish the programs at George Fox. Some of the resources that are provided to students at the university are as follows:

- Academic Centers
- Academic Resource Center
- Career Services
- Health and Counseling Services
- International Student Services
- Libraries
- Multicultural Services

In addition, the university maintains certain standards of conduct that are expected to be upheld by students while enrolled at the institution.

Academic Centers

Center for Global Studies

This program is jointly housed with the Center for Peace and Justice (described below). Its goal is to deepen students' understanding of global issues through on-campus and off-campus experiences.
Among the programs either sponsored by the center or coordinated with the center are these:

- Semester-long programs of study in various parts of the world and in the United States
- Cooperative programs with various international universities
- Global service forum in the spring semester
- Events that inform students about global issues
- Information about internships and careers dealing with global issues

Center for Peace and Justice

This program is the successor to the Center for Peace Learning, established in 1984. Housed in the same location as the Center for Global Studies, it has some of the same goals of enhancing students' understanding about global reconciliation.

The Center for Peace Learning was in part inspired by a concern raised by then U.S. Senator Mark Hatfield that George Fox become more actively committed to issues of peacemaking and reconciliation. These issues had become a substantial part of Senator Hatfield's work in the Senate. Among other achievements, he had much to do with the establishment and funding of the U.S. Institute of Peace. After retiring, Senator Hatfield joined the George Fox faculty and teaches courses in political science and history.

The director of the Center for Peace and Justice coordinates such efforts as:

- The minor in peace studies
- The certificate program in conflict management
- The John Woolman Forum, at which the annual Woolman Peacemaking Award is presented
- Information to students about graduate work in peace studies and careers in peacemaking and reconciliation
- Informational events dealing with peace and justice

Friends Center
In conjunction with George Fox University, Northwest Yearly Meeting of Friends has established a Friends Center serving the leadership preparation needs of Friends in the Northwest and beyond. The mission of this center is to recruit, promote, and coordinate the leadership preparation ventures of Friends at George Fox University as a means of furthering the central mission of the university and Northwest Yearly Meeting in fostering Christ-centered faith and practice. The activities of the center are administered by a director, who reports to a board of directors, consisting of Northwest Yearly Meeting, university, and at-large members. While the work of the Friends Center will be especially concerned with the seminary and the undergraduate programs, its contribution should be seen as extending to other programs as well. The Friends Center, therefore, is intended to assist George Fox University in accomplishing its Christ-centered and Quaker mission in any ways that would be serviceable.

Northwest Center for Play Therapy Studies
The Graduate Department of Counseling is pleased to be the home of the Northwest Center for Play Therapy Studies, established in 2003. Under the direction of Dr. Daniel Sweeney, the NWCPTS is the only university-based center focused on the study and promotion of play therapy in the northwest United States.

Mission
The mission of the Northwest Center for Play Therapy Studies is to promote the healthy development and welfare of children and families through the process of play and
filial therapy. In support of the relational, psychological, and spiritual wholeness of children and families, the center seeks to fulfill this objective through the provision of play therapy, training, supervision, and learning resources for students and mental health professionals in the community.

Classes
The center's primary focus is the provision of high-quality play therapy training. This is accomplished through graduate courses here at George Fox University and sponsored workshops. It hosts graduate courses in play therapy, filial therapy, sandtray therapy, and special topics courses (e.g., group play therapy).

Workshops
The NWCPTS also sponsors a one-day conference every November and a five-day play therapy summer institute in June. These cover a wide variety of play therapy topics, including introductory and advanced workshops on such topics as sandtray therapy, play therapy with traumatized children, art in play therapy, and neurobiological issues in the play therapy process.

These workshops have attracted presenters and participants from across the nation. Some of the internationally acclaimed presenters brought in by the NWCPTS include:
Dr. Garry Landreth, Dr. Eliana Gil, Dr. John Allan, Dr. Terry Kottman, Dr. Risë VanFleet, and Dr. Kevin O'Connor.

The web site for the NWCPTS is www.nwplaytherapy.org, and the center can be reached at playtherapy@georgefox.edu.

Academic Resource Center

The Academic Resource Center (ARC), housed on the second floor of the Newberg campus' Murdock Learning Resource Center, consists of three primary branches: Writing Services, Academic Coaching, and Tutoring Services.

• Consultants provide **writing services** by giving guidance and feedback to students engaged in the writing process. ARC consultants are students from various majors who have strong writing skills in their disciplines.

• **Academic coaching** consists of one or more meetings with an ARC consultant to discuss strategies for success. Everyone can benefit from sharpening skills in areas that support learning. Individual advising might include topics such as reading strategies, note-taking skills, preparation for exams, and time management. Handouts on these and other topics are available in the Academic Resource Center. The center's website also includes links to other learning-related resources.

• Students desiring **tutoring services** for specific courses should first go to labs on campus that offer discipline-specific tutoring (e.g., math or languages). If such services do not exist, students can check to see if an ARC consultant has experience with the course or discipline. An appointment can then be made with the ARC consultant.

Additional information about the Academic Resource Center is available at arc.georgefox.edu.

Writing Center
The Writing Center (WC) is located in Room 141 within the Portland Center library. The writing center works with graduate and professional studies students to improve their writing. No matter what the discipline is, clear, effective writing is imperative. The WC is not an editing service - it's purpose is to help students become better writers, not merely edit their papers for them. The hope is to work with students to develop the tools to write well. Elements that might be covered in a consultation include:

- Writing topics (thesis, organization, voice, grammar, etc.)
- Citation formatting (MLA, APA, or Turabian), and
- Software use (Word, EndNote, etc.).

If an in-person appointment cannot be made, papers can be sent in via email. A consultant will add comments to the paper and send it back. Further discussion and clarification can then take place over the phone as needed.
Additional information about the Writing Center is available at wc.georgefox.edu.

Career Services

Located on the second floor of the Stevens Center-Newberg campus, this office is the center for career coaching, career information/education, employment services, graduate school admission preparation, and internship assistance. Students can receive guidance as they discover their mission in life, choose a major, explore occupational options, select an internship or other work experience, find professional employment, or plan to attend graduate school. This career planning can be self-managed by each student through the Student to Professional (STP) program.
Programming and resources include three online career classes (for undergraduate students), valuable workshops, career assessment, coaching and consultation, internship guidance and database, virtual

internship center, internships for credit,
special events, job-search skills training (cover letter, resumé, interviewing, portfolio, job search strategy), and networking with alumni on our website (careers.georgefox.edu). Also available is a resource center with occupational, graduate school, and employer information. Permanent, summer, student employment, and internship jobs are posted electronically on JobConnect in Bruindata.
Computerized and Online Career Assessments, Degrees-at-Work Etiquette Dinner, Networking Event, Internship Fair, Oregon Liberal Arts Placement Consortium (OLAPC), Career and Graduate School Fair, Graduate School Focus Week, Job Hunter's Workshop, Practice Interview Day, and Professional Preview Day are special program features. Self-managed job search tools are also available for teachers.

Health and Counseling Services

Health and Counseling Services exists to help you maintain a good state of health through early diagnosis and treatment of illness and injuries and through preventative medical care, including health education. A medical practitioner and a registered nurse provide medical services fall and spring semesters, September through mid-May. Services are available by appointment. Health and Counseling Services is located in the Woodward House-Newberg campus.

The counseling staff consists of doctoral-level students supervised by the program director, a licensed psychologist. Individual counseling with a focus on using short-term techniques is provided for students who wish to discuss a wide variety of personal concerns. Sessions are normally planned weekly and usually last about one hour. Marriage and premarital counseling, crisis intervention, testing, and referrals are also available. Counseling sessions are by appointment only.

Professional services such as counseling and health care are provided at no cost to full-time undergraduate students. Laboratory and X-ray testing are arranged through an outside provider and are billed to your medical insurance. Fees may be charged for supplies.

International Student Services

International Student Services serves as a resource for advising and assisting international students and helps facilitate the meeting of diverse cultures in the George Fox University community. The university recognizes that international students bring with them unique needs as well as welcomed contributions. The International Student Services office seeks to help students adjust to their
new surroundings and to help the campus community develop a sensitivity to their needs. The director and assistant director of this office encourage the participation of international students in the academic and social life of the university and in the
exploration of the surrounding American culture. They also assist students in complying with U.S. Immigration regulations. The staff members are friends and advocates of the international student.

Libraries

Murdock Learning Resource Center (Newberg) and Portland Center Library (Tigard)

George Fox University maintains libraries at both the Newberg and Portland Center campuses. The Murdock Learning Resource Center (MLRC) is a three-story, 35,000-square-foot building serving the Newberg campus from a central location. The MLRC houses 136,000 print volumes and receives nearly 900 periodical titles. In addition, thousands of full-text periodicals are also available online from both the Newberg campus and the Portland Center, and off campus through a proxy server. The MLRC has several

special collections, including the Quaker Collection of basic Quaker books, pamphlets, and periodicals. The archives of Northwest Yearly Meeting of Friends Church and of George Fox University, dating from the 1880s, are preserved in a special room. The Hoover Collection contains materials written about President Herbert Hoover and his administration. The Peace Collection contains books and periodicals pertaining to conflict resolution and international peacekeeping.

The Portland Center library houses 67,000 print volumes and receives more than 300 periodicals. The collection is especially strong in religion and counseling. Also located in the Portland Center library are the archives of George Fox Evangelical Seminary.

The university's online library catalog provides access to the holdings of both the Murdock Learning Resource Center and the Portland Center library. Students at one site may request books from the other location through the catalog. George Fox is a member of the Orbis Cascade Alliance, a consortium of 34 academic libraries in Oregon and Washington. Through "Summit Borrowing," students may conveniently request books and other materials from the consortium's union catalog of more than 27 million items. GFU students can also check out directly from any other Orbis Cascade library when presenting their current GFU ID card.

Many licensed indexing/abstracting services and full text journals are made available by the library via the Internet. Journal articles not available through the library may be requested through interlibrary loan. Normally articles are scanned and sent to GFU electronically from other libraries. Users requesting articles will be notified via e-mail as to how to retrieve such documents electronically as a pdf file. George Fox is a member of OCLC, which provides access to thousands of libraries for interlibrary loan purposes.

Multicultural Services

The Office of Multicultural Services is a resource center charged with advancing George Fox University's commitment to preparing students for a diverse society and promoting equality and integrity on the campus, in the community, and in the world. Cultural difference is the Lord's creation, which all of us should be proud of and celebrate.

The office provides individuals with the opportunity to broaden their views and enrich their cultural experiences through participation in diversity programs and training workshops. The office encourages and facilitates activities that allow students to voice their opinions, serve the community, and advocate for making George Fox University a place that welcomes difference and individuality.

George Fox University fosters diversity through the belief that awareness and knowledge of diversity and the ability to operate in a pluralistic society are important hallmarks of a quality liberal arts education. The multicultural experiences on and

off campus prepare students to serve the Lord across the globe. Education in the multicultural arena, by following teachings of the gospel, encourages the development of a distinctively Christian worldview in the context of habits of lifelong learning.

A multicultural presence helps all students better understand the challenges and rewards of living in a diverse climate. Day-to-day dialogue among students, faculty, and administrators, crucial to the teaching-learning process, is enhanced by diversity in a campus community where heterogeneity, whether cultural, racial, or economic, gives voice to a wider range of perspectives and worldviews.

Standards of Conduct

When enrolling at George Fox University, students agree to respect the expectations and appointed leadership of the institution. All expectations are designed to allow the fullest liberty consistent with efficient work, while at the same time promoting the welfare of the entire campus community.
The university admits students with the understanding they will comply with these expectations in every respect and conduct themselves as responsible citizens.
All students are expected to uphold certain standards of behavior, which includes conforming to state and local laws.

Any student whose behavior is dishonest, destructive, unethical, or immoral, or
whose conduct is detrimental to the total welfare of the community, shall be subject to disciplinary action that may warrant appropriate consequences, with the most severe possibly resulting in suspension or dismissal.

In accordance with Christian convictions honoring the body as the temple of the Holy Spirit, the university community accepts a lifestyle that forbids immoral sexual behavior and the use, possession, or distribution of illegal drugs. Obscene or pornographic materials or literature, including pornography via the Internet, also are unacceptable. Students are expected to maintain these lifestyle standards both on and off campus. Responsibilities and expectations for traditional undergraduate students can be found in the Student Handbook.

Financial Information

George Fox University maintains high educational standards at the lowest possible cost. A portion of the cost is underwritten by gifts from alumni, friends, churches, businesses, and institutions. An extensive financial aid program assists students in meeting university costs.
The board of trustees reserves the right to adjust charges at any time, after giving due notice. No changes will be made during a semester, nor, unless special circumstances make such action necessary, will changes be made during a given academic year.

Student Financial Services

The Student Financial Services office awards scholarships, grants, loans, and other forms of financial assistance, and it bills students for tuition, fees, room and board, and other expenses related to attending college. Information about tuition and fees (including archived information from previous years), financial aid, billing, satisfactory academic progress for financial aid eligibility, and other policies and procedures are available on the office web site at: sfs.georgefox.edu

Veterans Affairs Assistance

The university is listed with the U.S. government as a recognized graduate school
for the training of veterans. All prospective students eligible for VA assistance should review information provided by the Registrar's Office about VA-approved programs and follow procedures required by the Veterans Affairs for transfer of training to George
Fox University. To be recommended for VA assistance, the student must continue as a bona fide registrant throughout the semester. Those receiving VA assistance must meet the minimum academic standards of the university for enrollment and progress toward degree completion and to enroll must have an approved VA benefits voucher authorizing payment. The Montgomery GI Bill is considered a resource against all aid sources except for the subsidized Stafford loan.

Academic Personnel

These lists were current at the time this catalog was published.

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This list includes the board, ex officio and honorary trustees.
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David C. Le Shana, PhD, President Emeritus of George Fox University, President Emeritus of George Fox Evangelical Seminary

Executive Leadership

President's Executive Leadership Team

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Sarah Thomas Baldwin, MDiv, Dean of Spiritual Life/Campus Pastor **G. Michael Goins**, BA, Vice President for Financial Affairs/Treasurer **Brad A. Lau**, EdD, Vice President for Student Life
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Rob Westervelt, MA, Vice President for Marketing Communications

Admissions

The Office of Undergraduate Admissions, located on the second floor of the Stevens Center, serves students planning to enroll in traditional undergraduate programs on the Newberg campus. Professional studies admissions, located in the Portland Center, assists students seeking enrollment in the adult undergraduate degree-completion programs. Admissions counselors are available on both the Portland Center and Newberg campus to assist students.

Basis of Undergraduate Admission

The university admits applicants who evidence academic interests and ability, moral character, social concern, and who would most likely profit from the curriculum and Christian philosophy of George Fox University. These qualities are evaluated by consideration of each applicant's academic record, test scores, recommendations, writing sample, and participation in extracurricular activities. Admission is possible for fall or spring semester.

George Fox University does not discriminate against students on the basis of race, color, national or ethnic origin, gender, age, disability, or any other status to the extent prohibited under applicable nondiscrimination law in the administration of its admission policies, scholarship and loan programs, educational programs, athletics programs, cocurricular activities, or other university-administered programs.

Admission Procedures for Freshmen

In order to provide a solid foundation for college-level work, it is recommended that the applicant present the equivalent of 16 academic units from an approved high school. The following units are suggested: English, 4; social studies, 3; science, 2; mathematics, 2; foreign language, 2; and health and physical education, 1.

Approximately 90 percent of the freshman class enroll with an A or B high-school grade average. The Admissions Committee may offer provisional admission to students with lower high school grades or low entrance examination scores.

Procedures

1. Write to the Office of Undergraduate Admissions, George Fox University, 414 N. Meridian #6089, Newberg, OR 97132, for information and admission forms. Or visit our website.
2. Complete the Application for Admission and return it to the undergraduate admissions office. Include a nonrefundable application fee of $40. The postmark deadlines are: Dec. 1 for Early Action, Feb. 1 for Regular Decision, and Nov. 1 for spring semester.
3. Request an official transcript of academic credit from the secondary school last attended.
4. Have the two recommendation forms in the application packet completed and sent to the admissions office.
5. Submit entrance examination scores. The Scholastic Aptitude Test (SAT) [GFU code is 4325] or American College Test (ACT) [GFU code is 3462] will be accepted. The writing portion of the ACT is not required. Tests should be taken in your junior year or early in your senior year. Contact your high school principal or counselor for information concerning these tests. Soon after the admission file is completed, the applicant is notified of the Admissions Committee's decision. Updates to test

scores will be considered until Feb. 1.

6. If applying for financial aid, a Free Application for Federal Student Aid (FAFSA) must be submitted online at www.fafsa.ed.gov as soon after Jan. 1 as possible. The GFU code for FAFSA is 003194. Forms may be obtained from high school counseling offices or by writing to Student Financial Services at George Fox University. After students have been accepted for admission, they are considered for financial assistance. To permit maximum consideration for financial aid, it is recommended that the application process be completed by March 1.
7. A tuition deposit of $300 must be submitted by each new student. This deposit reserves housing and a place in the registration sequence, so the deposit should be submitted as soon as possible following notification of acceptance. For fall semester, deposits are due by May 1 and are fully refundable until that date. After May 1, all deposits are nonrefundable. For spring semester, deposits are due by Dec. 1 and are nonrefundable.

Admission Procedures and Policies for Transfer Students

Procedures

1. Write to the Office of Undergraduate Admissions, George Fox University, 414 N. Meridian #6089, Newberg, OR 97132, for information and admission forms. Or visit our website.
2. Complete the Application for Admission and return it to the admissions office. Include a nonrefundable application fee of $40. The priority due date is March 1 for fall semester and Nov. 15 for spring semester.
3. Request an official transcript from each college where previously registered. An applicant may also be asked to furnish a high school transcript.
4. Transfer students applying for admission during the first year out of high school should submit entrance examination scores. The Scholastic Aptitude Test (SAT) or American College Test (ACT) will be accepted. You will also need to submit your final high school transcript.
5. Have the two recommendation forms in the application packet completed and sent to the admissions office. A student must be free from academic or behavioral probation or suspension at all colleges previously attended to be eligible for admission to George Fox University. Soon after the admission file is completed, the applicant is notified of the Admissions Committee's decision.
6. If applying for financial aid, a Free Application for Federal Student Aid (FAFSA) must be submitted online at www.fafsa.ed.gov as soon after Jan. 1 as possible. The GFU code for FAFSA is 003194. Forms may be obtained from your current college financial aid office or by writing to Student Financial Services at George Fox University. After students have been accepted for admission, they are considered for financial assistance. To permit maximum consideration for financial aid, it is recommended that the application process be completed by March 1.
7. Have the financial aid office at each college previously attended complete a Financial Aid Transcript and return it to Student Financial Services at George Fox University. The Financial Aid Transcript must be completed whether or not aid was received at these institutions.
8. A tuition deposit of $300 must be submitted by each new student. This deposit reserves housing and a place in the registration sequence, so the deposit should be submitted as soon as possible following notification of acceptance. Until May 1, it is refundable by written request. After May 1 a deposit is not refundable. The spring semester tuition deposit deadline is Dec. 1 and is not refundable after that date.

Policies

Students who have completed work at other educational institutions may be entitled to transfer credit by presenting official transcripts. George Fox University applies the accepted credits toward the general education requirements, electives, and the student's chosen major. Certain criteria are involved in the evaluation:

1. Only course work with a C- or better grade will be accepted. (The GPA does not transfer. A student's GPA is computed on work at George Fox University only.)
2. A maximum of 64 semester hours may be transferred from community colleges.
3. The OTAA or WTAA degree will satisfy all general education requirements except Bible and religion provided students complete 90 quarter hours (60 semester hours) of transferable credit graded C- or better. The OTAA or WTAA degree may not necessarily meet school, department, or major requirements with regard to courses or GPA.
4. A maximum of 40 semester hours of Bible and Christian ministries may be applied on a degree in a major other than Bible and Christian ministries.
5. A maximum of 15 semester hours of approved correspondence work may be applied toward a degree program.

Transfer credit will be evaluated and assigned a George Fox University course number based on the closest match between the originating course and the George Fox University course descriptions.

Courses that are not equivalent will be assigned to the closest matching four-letter department code and assigned a 285 (lower division) or 485 (upper division) number. HHPA courses will be assigned a 185 (lower division) or 385 (upper division) number.

When the closest match for an originating lower-division course is a George Fox University upper-division course, the number 285 will be assigned and the student may receive a waiver for the upper-division course if required. When the closest match for an originating upper-division course is a George Fox University lower-division course, the student may elect to have a 485 number assigned (to count toward the upper-division course requirement) and receive a waiver for the lower-division course.

Any evaluation of transfer credit is to be considered tentative until the student has completed 12 hours in good standing.

Each student must complete a minimum of 30 semester hours in residence for the bachelor's degree. Twenty hours must be in the senior year. Additionally, transfer students must complete at least 60 hours at George Fox University to be eligible for honors at graduation.

International Students

George Fox University is authorized under federal law to enroll nonimmigrant alien students. Prospective students who are not U.S. citizens are encouraged to apply early. To be considered for admission, an international student must complete all general admission procedures required of American students and submit a Declaration of Finances form or demonstrate adequate funds by a certified bank statement. Immunizations must be up to date and documented.

International students (F-1 visa students or J-1 visa students) must show proficiency in the English language. The following table lists required levels of proficiency based on the language assessment and the corresponding placement in George Fox University coursework:

Paper-Based TOEFL	Internet-Based TOEFL	IELTS	Placement at George Fox University
550+	79+	5.5+	Regular degree coursework
500-540	61-78	5	Regular degree coursework with English
Below 500	Below 61	Below 5.0	English Language Institute coursework

Readmission of Former Students

To apply for readmission after an absence of one or more semesters, a student should request an Application for Readmission from the Office of Undergraduate Admissions. By May 1, a $300 tuition deposit must be submitted by each readmitted student. Until May 1, it is refundable. The spring semester tuition deposit deadline is Dec. 1 and is not refundable after that date. Generally readmitted students must meet any new or revised graduation requirements as listed in the catalog at the time of readmission.

Students who drop out to attend another program risk acceptance of that credit on return unless such has been approved by the registrar prior to leaving.

Advanced Placement

Past learning and present ability may recommend that course work begin at an advanced level. This may involve granting of credit or waiving certain prerequisites or university requirements. See General Education Requirements and Course Challenge Programs for more information.

Early Admission of High School Students

An early admission program is available to qualified high school students. This permits study at George Fox University while a student completes a high school program.
Eligibility Requirements

- An applicant must have completed the sophomore year of high school.
- An applicant who has completed the senior year of high school is not eligible.
- Early admission students must receive grades of C or better to remain in the program.

Application Procedures for Early Admission

1. Contact the registrar's office for the admission form.
2. Complete the Application for Early Admission and return it to the registrar's office with the $40 application fee, and indicate your course selection.
3. Only one course of no more than 4 hours may be taken during any regular semester.

Cost and Credit

- Early-admission students may take a maximum of 12 semester hours of work with a tuition charge of $50 per credit hour.
- Credit during early admission may be applied to degree programs at George Fox University without additional charge.
- Credit earned during early admission may be transferred to other colleges or universities upon payment of regular tuition and fees in effect at the time the course was taken.
- After the completion of 60 semester hours (two years) at George Fox University, a student may transfer the hours taken during early admission without an additional payment.

Admission Following Participation in the Early Admission Program

A high school student taking courses in the Early Admission Program and wishing to be admitted to the

university as a regular student must complete all application procedures for admission to the university. See Basis of Undergraduate Admission. Since an early admission participant has already paid an application fee, an additional fee will not be required.

Older Adults

Any person 62 years of age or older may enroll in traditional undergraduate courses for credit or audit without a tuition charge. A service fee of $25 per semester is required, plus a fee for materials if such are essential to the course. Students are not eligible to participate in institutional financial aid programs. Unless limited by space, equipment, or essential background, all courses are open. Application is through the registrar's office. A one-time application fee of $40 is required. Counseling in regard to courses is also available in the registrar's office. All school of professional studies courses and graduate program courses are excluded.

Auditors

Subject to instructor and registrar approval, any regular or special student may audit courses from which he or she wishes to derive benefit without fulfilling credit requirements. Auditors may enroll on a space-available basis. Enrollment for audit must be established with the registrar at time of registration. Class attendance standards are to be met. Auditors pay a reduced tuition rate, generally one-half regular tuition. Students' cost may exceed the block-rate tuition if the audit causes them to exceed the 18-hour maximum. Students do not complete course requirements, and no college credit is earned. Audits will not be changed to credit after the registration change deadline. Students who elect to complete course requirements as an auditor may not request a change to credit after the registration change deadline. Students may not complete or submit additional course work to modify the course registration for credit after the conclusion of the course.

High School Nongraduates

A student who does not hold a high school diploma may be admitted on the basis of the General Educational Development (GED) Test, provided the average standard score is at least 530 with no one score below 480. A high-school or two-year-college counseling center can supply testing details.

Spouse Enrollment Program

Spouses of full-time undergraduate and graduate George Fox University students may take traditional undergraduate courses, without credit, at a reduced rate. After completing a part-time application form and paying a $40 fee, the spouse may take up to two courses per semester for $50 per credit. Audited courses are not eligible to be converted to credit at a later date.

Student Life

Located in the Stevens Center, this office is responsible for the organization and programming of residence life and housing, student government, student activities, career services, first year experience, multicultural services, security, student leadership, health and counseling services, international student services, disability services, new-student orientation, the academic resource center, the Tilikum Center for Retreats and Outdoor Ministries, Act Six, and campus ministries. This office also offers individual attention to problems arising among students. Students are encouraged to contact this office whenever they are concerned about aspects of university life not specifically related to academic programs. The vice president for student life coordinates these services and programs.

Student Activities and Organizations

Student organizations provide opportunities for the development of leadership qualities and interpersonal relationships. They are designed to supplement classroom work with practical experience and to provide recreational and social activities. These organizations include student government, athletics, music, drama, publications, social and religious organizations, and various special-interest groups. Students are encouraged to participate in areas of their interest.

In addition, a variety of honor societies are available for student involvement, including Sigma Zeta (natural science and math), Alpha Chi (general academics and character), and Psi Chi (psychology).

ADVANCE Leadership Development Program and Fox Mentoring Program

The ADVANCE Leadership Development Program is a comprehensive lineup of cocurricular experiences designed specifically to enhance and develop the leadership skills and abilities of George Fox University students. Leadership workshops and events take place throughout each semester. All students are encouraged to participate.

In addition, the Fox Mentoring Program exists to provide connections for meaningful relationships between students, staff, and alumni. There are three branches to the Fox Mentoring Program. The first branch is one-on-one mentoring where a student is paired with a faculty, administrator, staff, or alum mentor. The second branch is couples mentoring, available to seriously dating, engaged, or married students at George Fox. The third branch, peer-to-peer mentoring, allows upper-class students to mentor freshmen and sophomores. Every undergraduate student is encouraged to and eligible to apply each semester.

Athletics

Mission Statement
The George Fox University Department of Intercollegiate Athletics is dedicated to providing quality programs and athletic experiences consistent with the stated mission and values of the university.
We are committed to the development of the whole person. The department strives to educate and involve students and the university community in the promotion of personal growth. This personal growth involves intellectual maturity, Christian character, and competitive excellence. The department strives to prepare men and women to be student-athletes distinguished by integrity, winning effort, and Christian conduct.

We expect our student-athletes to pursue excellence on the courts and playing fields, in the classroom, and in our community. Students who choose to participate in our athletic programs are challenged to lead lives committed to health, discipline, perseverance, and stewardship. We expect our players to emulate Christ in all aspects of their lives including their academic and athletic endeavors.

Description of Athletics Program
Intercollegiate sports for men include soccer, cross country, basketball, baseball, tennis, and track and field. Women's intercollegiate sports include soccer, cross country, volleyball, basketball, softball, golf, tennis, and track and field.

Intercollegiate athletics function under the guidelines of the National Collegiate Athletic Association (NCAA) - Division III and the Northwest Conference.

The basic aims of the intercollegiate athletic program are as follows:

Colleges and universities in NCAA Division III place highest priority on the overall quality of the educational experience and on the successful completion of all students' academic programs. They seek to establish and maintain an environment in which a student-athlete's athletics activities are conducted as an integral part of the student-athlete's educational experience. They also seek to establish and maintain an environment that values cultural diversity and gender equity among their student-athletes and athletics staff. To achieve this end, NCAA Division III institutions:

1. Place special importance on the impact of athletics on the participants rather than on the spectators and place greater emphasis on the internal constituency (students, alumni, and institutional personnel) than on the general public and its entertainment needs;
2. Award no athletically related financial aid to any student;
3. Encourage the development of sportsmanship and positive societal attitudes in all constituents, including student-athletes, coaches, administrative personnel, and spectators;
4. Encourage participation by maximizing the number and variety of athletics opportunities for their students;
5. Assure that the actions of coaches and administrators exhibit fairness, openness, and honesty in their relationships with student-athletes;
6. Assure that athletics participants are not treated differently from other members of the student body
7. Assure that athletics programs support the institution's educational mission

by financing, staffing, and controlling the programs through the same general procedures as other departments of the institution;

8. Provide equitable athletics opportunities for males and females, and give equal emphasis to men's and women's sports;
9. Give primary emphasis to regional in-season competition and conference championships;

10. Support student-athletes in their efforts to reach high levels of athletics performance, which may include opportunities for participation in national championships, by providing all teams with adequate facilities, competent coaching, and appropriate competitive opportunities.

lntramurals

The university has a broad-based, student-led intramural program, which includes men's and women's flag football, 3-on-3 basketball, 5-on-5 basketball, racquetball, and tennis. Also included in the program are coed competitions in volleyball, indoor soccer, and floor hockey.

Spiritual Formation Requirements and Campus Ministries

Receiving a well-rounded education means growing intellectually, emotionally, and spiritually, and creating a strong foundation on which lives, hopes, and dreams can be built. Helping facilitate this kind of growth is the focus of the Office of Campus Ministries and its Spiritual Formation Program, which is made up of three primary components: 1) praise and worship, 2) study, and 3) ministry/service.
By partnering with George Fox faculty, staff, and administration in providing a wide variety of opportunities, the campus pastor and the director of outreach and discipleship journey with students interested in investigating who God is; present Jesus Christ to students in credible, creative, and caring ways; equip students for service; and disciple new Christians. The goals of helping students embrace and live out the priorities of loving God, hearing God, obeying God, and serving God are always at the forefront, whether in one-on-one situations or in small or large groups. Freshmen, sophomores, and juniors carrying a full class load (12 hours or more) are required to earn 21 Spiritual Formation credits each semester. Throughout each semester, students earn these credits by their involvement in one, two, or all three components of the Spiritual Formation Program.

1. **Praise and Worship.** Chapel is a time of praise, worship, and learning. Chapel is held Monday and Wednesday mornings 10:40-11:30 a.m. the first 14 weeks of each 15-week semester. In addition to the weekly Monday/Wednesday chapel services, there are many other daytime and evening opportunities to receive Spiritual Formation credit, as well.
2. **Study.** Small-group studies offer a time for interaction, questioning, and fellowship with other students. Some small groups study specific books of the Bible, while others use a variety of other books and study guides as their starting point for discussion and faith learning. Participants can receive four Spiritual Formation credits for participating in a study.
3. **Ministry/Service.** Ministry and service opportunities allow students to live out what they say they believe. Serve trips take place during the third week of Christmas break and the whole week of spring break-reaching communities in West Coast areas and beyond. Participants can receive four Spiritual Formation credits.

Media

Student publications include a newspaper, *The Crescent*; the yearbook, *L'Ami*; a photo directory, the *Bruin Directory*; and *The Wineskin*, the literary publication. Student editors direct their staffs in the selection and preparation of materials for these publications. The student radio station, KFOX, broadcasts campus news and music in a contemporary Christian format. KFOX also has expanded into broadcasting George Fox sporting events. The *Campus Album Project* is the annual student album.

Music

Participation in music ensembles is open to all George Fox University students. Ensemble opportunities include Concert Choir, Chorale, Chamber Singers, Jazz Choir, Symphonic Band, Jazz Band, the Chehalem Symphony Orchestra, and many other chamber ensembles. These groups perform at campus events as well as community venues. Ensembles may be taken for credit or as an extra-curricular activity.

Residence Life

On the Newberg campus, approximately 70 percent of the student body live in campus housing. Interpersonal relationships experienced in campus residence halls, suites, apartments, and houses are strong factors in producing positive personal development. The policies and procedures governing residential living are consistent with the core values of George Fox University.

Full-time students must occupy university-owned housing for three years unless they are approved to live off campus according to established guidelines. For a full description of the off-campus housing request process, see the *Undergraduate Student Handbook* or the housing homepage on the George Fox website.

New students will be mailed a Confirmation of Enrollment form with their admissions packet. The admissions packet also will include information about the housing assignment process. Housing assignments will not be made until the tuition deposit has been paid. Housing assignments begin late in June and continue through the summer. Housing assignments generally will not be made until a housing selection form is received.

Nine residence halls house approximately 650 students, with approximately 1,200 students living in campus housing. Housing administration is handled by the director of housing in the Office of Student Life. Campus housing is furnished with beds, mattresses, and other essential furnishings. Students are expected to provide their own bedding, towels, etc. Card-operated laundry facilities are provided for each residence.

Specified hours have been established for coed visitation. Additional residential housing and lifestyle expectations are included in the *Undergraduate Student Handbook*
provided for each entering student.

Occupants of campus housing are held responsible for damage to their unit and furnishings. Cost of damage or cleaning beyond normal wear, unless such damage has been identified with a particular individual, will be charged on a prorated basis among the occupants of the unit. A final inspection by the resident assistant of each campus-housing unit must be made before a student may leave at the end of the
academic year or withdraw from the university. Final check-out from a campus housing unit is complete only with this inspection, after the key is turned in, and after the residence life staff has signed off on all paperwork.

A number of residence hall rooms on campus have been designated and equipped for physically handicapped/disabled student housing as needed. There is access for wheelchairs and accommodation for a guide dog.

Students needing accommodations should contact the Office of Residence Life and Housing well in advance of attendance so that specific attention can be made to assist in providing living arrangements and learning accommodations.

Social Events

The academic year at George Fox University is highlighted by a variety of social functions. Homecoming is

one of the major campus events of the year, when the entire university community hosts returning alumni. Various other activities occur throughout the year. The student government's Activities Committee tries to provide one activity every week. Several thematic all-campus social dances are sponsored each year by the Associated Student Community under guidelines approved by the university administration and board of trustees.

Student Government

The Associated Student Community (ASC) of George Fox University is an organization of all undergraduate students with the purpose of serving as a unifying force for the university community and providing opportunities for the enrichment of members' lives.

Theatre

Part of the Department of Performing Arts, the George Fox University Theatre presents three main stage productions each year as well as several other events including student-directed one-acts; *Ten! Ten! Ten!*, a collection of student-directed 10-minute plays; *Theatre Games*, an improvisational showcase; and *Shakespeare Under the Stars*, a showcase of monologues and scenes in celebration of Shakespeare's birthday. Augmenting the on-campus theatre program is the University Players, a theatre troupe that tours throughout the Northwest to churches, prisons, retreats, schools, and marketplaces. Each spring, the University Players hold *Players Presents*, where they deliver a special performance of their work to the on-campus community.

Academic Support Programs

George Fox University offers the following programs that support the mission of the traditional undergraduate program at the university:
On-Campus Academic Programs
Off-Campus Programs
Consortium Visitor Program Semesters Off Campus
Juniors Abroad
English Language Institute (ELI)
Academic Support Programs

George Fox University offers the following programs that support the mission of the traditional undergraduate program at the university:
On-Campus Academic Programs
Off-Campus Programs
Consortium Visitor Program
Semesters Off Campus
Juniors Abroad
English Language Institute (ELI)

On-Campus Academic Programs

Academic Success Program

A limited number of carefully selected students who do not meet regular admission standards are welcomed to the George Fox University Academic Success Program (ASP) each fall. Admitted provisionally to the university, ASP students attend an afternoon orientation before other students arrive. Under the individualized guidance of the ASP director and faculty advisors, they register for fall courses. Tutorial assistance and other aids are available, as needed. Total hours are limited to 14 for fall semester.

Academic Symposia

Each year, George Fox University hosts numerous academic symposia as well as faculty lectures, some of which offer academic or chapel credit to students. On the Newberg campus, the biennial Herbert Hoover Symposium features leading authorities on the life and career of Herbert Hoover. Hoover spent part of his youth in Newberg, attending Friends Pacific Academy, the predecessor school to George Fox University. There is an annual Woolman Forum and Spring Theological Conference. Christian Life Week, Missions Week, Cultural Celebration Week, and Quaker Heritage Week all provide an opportunity to hear guest speakers lecture on related topics. At the Portland Center, the George Fox Evangelical Seminary offers a lecture series on various dates throughout the academic year.

Computers Across the Curriculum

This program provides a computer for every full-time traditional undergraduate student. (Students attending fewer than eight semesters will pay an additional fee.) The purpose of the program is to enhance the experience of teaching, learning, and research during the years spent in college. Students use their computers to make classroom presentations, share software programs and documents, communicate and

conference via e-mail, access the Internet, and develop software specifically for their courses. Instructional software programs developed at other colleges and universities also are used in the classroom and laboratory.

The program also features a computer laboratory located in the Stevens Center. This lab is open to all students and gives access to computers, laser printers, a color printer, a scanner, CD-ROM, and laserdisc drives. From this lab, students can access the campus network and campus e-mail system. The University Store provides computers, software, and supplies to the university. Also available is a help desk for support and computer repair services.

First Year Seminar Program

Repeated studies of the experience of college freshmen have found that the degree to which students identify with and become involved in the college environment during the first few weeks of attendance affects their success and satisfaction with their entire college experience. As a result, George Fox University demonstrates its commitment to freshmen by providing a First Year Seminar to assist students as they integrate into the academic and social life of the university community.

All first-time freshman students who matriculate fall or spring semester participate in the First Year Seminar. Students select a topical seminar designed by advisors to interest and involve students as they begin their college experience. Students meet in small groups with an assigned advisor for a required First Year Seminar during the first five weeks of the fall or spring semester, for which they earn one credit hour. The advisor also meets with students individually for academic advising. A returning student peer advisor is assigned to a group and maintains one-on-one contact with each freshman to assist with the transition to college life. This program provides new college students with the opportunity to interact - beyond the residence hall and traditional classroom setting - with one another, with a faculty member, and with a returning student during the first semester of enrollment.

Richter Scholar Program

This program provides financial assistance to both graduate and undergraduate students to facilitate advanced research in their fields. The program is funded by annual grants from the Paul K Richter and Evalyn E.C. Richter Memorial Funds. Although the funding is available for research work at any time during the year, the typical undergraduate award provides a stipend for full-time research work in the summer, along with supplies and travel. For more information, see the guidelines on the George Fox website.

Off-Campus Programs

Tilikum Retreat Center

Christian camping is emphasized through the facilities of university-owned Tilikum, a center for retreats and outdoor ministries for the greater Portland area. Tilikum features year-round programs and facilities with a wide appeal to all ages and denominations. More than 2,500 children and youth enjoy the summer camping program. University students have opportunities for study, recreation, personal renewal, and employment.

Tilikum provides the following kinds of retreat and camp experiences: (1) relational- family groups, men, women, couples, youth, and single parents - with a goal of strengthening the entire family unit; (2) support to local churches - to make available a retreat setting that encourages opportunity for renewal, planning, and spiritual growth; (3) senior adult Elderhostels; and (4) a challenge ropes course for teamwork, personal challenge and growth, and fun through experiential learning.

Field Education

This program, commonly referred to as "field experience," "internship," or "cultural experience," usually takes place off campus, yet is an integral part of the student's academic experience. Its purpose is to promote personal and career development by integrating classroom study with planned and supervised practical experience in vocational, educational, or cultural activities outside the classroom.

Enrollment in field education is an elective option in certain majors and a requirement in others. Refer to each program to determine how it applies. The program is open to George Fox University students only.

Two types of off-campus experiences are available: career and cultural. The career-oriented field experience focuses on two levels, which are "exploratory" (275) and "preparatory" (475). These two levels provide opportunity for initial exposure to a career-interest area and for realistic preparation toward a chosen field. The culture-oriented field experience (375) is designed to encourage a short-term residence in a different cultural setting, e.g., foreign country, inner city, rural community.

Academic credit may be earned through participation in an approved field education program. A full-time student may generate up to 12 hours during one semester. Part-time involvement can generate credit at the same rate as other methods of learning. Thirty to 45 clock hours per semester are required for one hour of credit. A maximum of 20 hours may be accumulated in field education between numbers 275, 375, and 475. Twelve hours are allowed between the career-oriented options, 275 and 475. Normally, the three alternatives are broken down as follows:

_____ 275 1 to 3 hours
_____ 375 2 to 12 hours
_____ 475 2 to 12 hours

Applications for field experience should be requested through the registrar. Applications must be completed, approved by the department chairperson, and submitted to the registrar for enrollment. The vital link to a successful field experience is the faculty sponsor (supervisor) with whom the learning plan is developed and carried out. The program also necessitates a field supervisor at the location of service or employment with whom the faculty sponsor and student interrelate.

Evaluation of the field experience is based upon successful completion of the stated individualized objectives

in the learning plan. Field experience is graded pass/no pass.

OICA Cross-Registration

A full-time student may take one course a semester for no additional tuition (if total credits do not exceed 18 semester hours) at one of the neighboring institutions in the Oregon Independent Colleges Association (OICA). Only courses not available on the home campus may be selected. Cross-registration is initiated by application through the George Fox University registrar.

ROTC Program

Through a cooperative agreement with the University of Portland, George Fox University students may participate in the Air Force Reserve Officers Training Corps (AFROTC) Program offered on the University of Portland campus. For more information, see the University of Portland catalog or contact the professor of aerospace studies, University of Portland, Portland, OR 97203, 503-283-7216.

Consortium Visitor Program

The Christian College Consortium Exchange sponsors a student visitors program intended as an enrichment to those disciplines where personnel and courses may be somewhat limited. Normally this one-semester experience should be part of the junior year or the first semester of the senior year. Application forms and a descriptive brochure are available from the registrar.

The other 12 members of the Christian College Consortium are Asbury College, Wilmore, KY; Bethel College, St. Paul, MN; Gordon College, Wenham, MA; Greenville College, Greenville, IL; Houghton College, Houghton, NY; Malone College, Canton, OH; Messiah College, Grantham, PA; Seattle Pacific University, Seattle, WA; TaylorUniversity, Upland, IN; Trinity College, Deerfield, IL; Westmont College, Santa Barbara, CA; and Wheaton College, Wheaton, IL.

Although spending a semester at another Christian institution can be very beneficial, there are budgetary limits on the number of students that can be approved for off-campus, semester-long programs. Students should not assume they will automatically be approved for the Consortium Visitor Program and may want to consider applying for one of the other programs as well.

The program permits a student in good standing to enroll for one semester at one of the other consortium colleges. Qualifying students must have at least a 3.0 grade point average, have completed prior to application one or more semesters free of academic or citizenship probation, and have been approved by the selection committee.

Selection to the above programs will be based on the academic purposes involved, grade point average, citizenship, classification, and the extent to which the student has or has not had diverse educational experiences.

Semesters Off Campus

Introduction

Students enrolled at George Fox University may enrich their learning experience and in some cases fulfill important requirements for their major or minor by participating in one of the approved programs listed below. For those approved to participate, the cost is similar to

staying on campus. Complete information about the programs and the application processes is available in the Center for Global Studies and on the George Fox University website.

Eligibility

- Student must have sophomore standing, including 31 semester hours completed, at the time of application for a semester off campus. Exceptions may be made if necessary for completion of a student's major requirements.
- Student must be enrolled at GFU for a full academic year prior to participation in a semester off campus. Exceptions may be made if necessary for completion of a student's major requirements.
- Student must be in good standing with Student Life.
- Student must be current with student financial accounts.
- Student must have a minimum cumulative GPA of 3.00 to apply for a semester off campus. Exceptions will be granted to students in good academic standing if a semester off campus is required for completion of the student's major or minor requirements. Students applying to the Scholars' Semester in Oxford must have a minimum cumulative GPA of 3.5.
- GPA will be one of the factors considered by the committee that selects GFU students to participate in the Semesters Off Campus programs.

Application Process

- Meet with your academic advisor to determine the impact on completing the major and other graduation requirements.
- Obtain the application form from the Center for Global Studies or the GFU website.
- Submit the form and its required attachments (faculty recommendation, transcript request, essay on your interest in the program) as well as the required signatures from various offices on campus to the registrar's office. The materials are due at the end of the first week of classes in the spring semester.

Selection Process

After the deadline, the Off Campus Selection Committee meets to review the applications and accepts or rejects them, based on the requirements listed above. The director of global studies then notifies the applicants of their acceptance or rejection.

Approved Programs

The following programs have been approved by the GFU faculty for their academic quality, their Christian focus, and their affordability. Detailed literature about the programs can be obtained at the Center for Global Studies.

- **African Studies Program** - In cooperation with Food for the Hungry International, this program is based in Uganda and has classes and internships in other countries.
- **American Studies Program** - Located in Washington, D.C., with a focus on public policy and featuring an internship in a public or private agency.
- **Australia Studies Centre** - Located at Wesley Institute in Sydney; students take a seminar in Australian history, culture, and society. They may choose other courses in theology, music, dance, drama, and design.
- **China Studies Program** - Located at Xiamen, on the southern coast of China, the program features Chinese language, Chinese history, and intercultural communications. Students travel to various parts of China as well.
- **Contemporary Music Center** - Located at Martha's Vineyard, Massachusetts, the program is designed to help Christians find their place in the creation, marketing, and consumption of contemporary music.
- **Costa Rica: Veritas Studies Program** - Veritas Studies Program is located at Veritas University in San José, Costa Rica. This is a language program within a larger Costa Rican University. Students have the opportunity to develop advanced Spanish language skills, as well as study other cultural and social issues as they pertain to the Costa Rican culture. In addition to Spanish language classes, students can take one humanities elective and also complete a service learning project. Home stays are part of the program.
- **France Program** - Located in Dijon, France, and operated by Grace College, the program is designed for students minoring in French. Students take courses at the Centre International d'Etudes Francaise de l'Universite de Bourgogne.
- **GoED Mekong Program** - Located in Chiang Mai, Thailand and operated by Food for the Hungry International, the program features issues specific to Southeast Asia and the "global south" in general. Students take courses in sociology, history, religion, the arts, and community development, all focused on the Mekong region. They particiapte in a practicum in one of the countries of southeast Asia.
- **Latin American Studies Program** - Located in San Jose, Costa Rica, the program deals with Latin American culture, history, politics, and economics. There are specialized tracks in language, business, and science.
- **Los Angeles Film Studies Center** - Located in Hollywood, with a focus on cinema and featuring an internship in the film industry.
- **Mexico Program** - Located in Cuernavaca, at the Centro de Lengua y Communication Social, the program is for Spanish majors and minors.
- **Middle East Studies Program** - Located in Cairo, Egypt; students study Middle Eastern cultures, religions, and conflicts. There are travel opportunities to other countries in the region.
- **Russian Studies Program** - Located in Moscow, St. Petersburg, and Nizhni Novgorod, the program features Russian language, history, and culture.
- **Scholars' Semester in Oxford** - Students participate in a course in Christianity and cultures, an integrative seminar, and participate in tutorials. Students have access to the Oxford libraries and academic programs.
- **Semester in Spain** - Located in Seville, the program is operated by Trinity Christian College and is designed entirely for Spanish majors. Students live in homes while studying language and culture.

- **Senegal French Program** - Located in Dakar, Senegal and operated by the Council for International Educational Exchange, the program is designed for students seeking the GFU minor in French. Students take courses in intermediate or advanced French and courses in other subjects taught in French.
- **South African Studies Program** - Located at Cornerstone Christian College inCape Town, the program emphasizes racial and cultural reconciliation.
- **South American Studies Program** - Located in Santa Cruz, Bolivia, and directly sponsored by George Fox University. Courses cover the religions of South America, the history of Latin America, and the cultures and customs of South America. Classes are held at Universidad Evangelica Boliviana, an interdenominational university founded by World Gospel Mission.
- **Uganda Studies Program** - Located at Uganda Christian College in Kampala, the program features African religions, history, culture, and literature.

Juniors Abroad

In order to enrich the intercultural and international awareness of our campus community, George Fox University offers a transportation-subsidized overseas course of approximately three weeks to any junior student who has fulfilled the following requirements. These tours occur during the annual May Term. Detailed information about eligibility and specific study tours is available from the director of Juniors Abroad.

Objectives

The student who successfully participates in Juniors Abroad will:

1. Experience cross-cultural learning opportunities in cultures distinctly different from their own;
2. Interact with the host culture through informal and formal contacts;
3. Experience what it means to be a cultural "minority";
4. Understand how to participate responsibly in a diverse global community;
5. Learn, through the study of disciplines such as the fine arts, language, science, architecture, or history, how various social institutions affect the host culture.

Policies

1. Students must have maintained three consecutive years of full-time enrollment. Transfer students may receive partial support for transportation expenses; requests for such support should be made to the director of Juniors Abroad.
2. Students must register for either GEED 355 Cross-Cultural Experience-US or GEED 365 Cross Cultural Experience-International.
3. Students will include tuition costs of this course as part of their block tuition for the spring semester preceding the May tour, and will be billed for whatever credits exceed the 18-hour limit.
4. Students will pay room and board and other fees, in advance for each tour, to be economically arranged by the university. For the typical Juniors Abroad study tour, the university will pay the full transportation cost for eligible students. On occasion, a tour with unusually high costs may involve a transportation surcharge.
5. Students must have a minimum cumulative grade point average of 2.0 at the end of the fall semester preceding the May tour.
6. Students must be in good standing with the Office of Student Life in the fall and spring semesters preceding the May tour (see Standards of Conduct).

7. Students must intend to return and graduate from George Fox University.
8. Student accounts must be current as of Feb. 15 the year of the tour.
9. The university reserves the right to withdraw from this program and commitment prior to fall registration in any year. Students already registered under the program are guaranteed the tour.
10. The university reserves the right in the event of an international monetary, military, or other crisis to cancel or postpone a tour or to make substitute arrangements.
11. The university does not obligate itself to alternative remuneration to students who cannot go, who decide not to go, or who are ineligible to go on a Juniors Abroad study tour.
12. Students (or alumni or friends of the university) who are ineligible for free transportation may apply to join a study tour and pay their own transportation and tuition, on a space-available basis.

English Language Institute (ELI)

The purpose of the English Language Institute (ELI) is to develop the language and academic skills of students whose native language is not English and to raise their level of cultural and spiritual awareness in order to prepare them for academic and social success at George Fox University.

The Intensive English Program, taught in the ELI at George Fox University, prepares international students to meet the challenges of academic study in English.

International students who score less than 500 on the paper-based Test of English as a Foreign Language (TOEFL), less than 173 on the computer-based TOEFL, less than 61 on the Internet-based TOEFL, or less than four on the Test of Written English will study intensive English approximately 14 hours per week while they also are enrolled in one or two regular university courses. ELI students may take up to 19 hours a semester, with a maximum of 4credits of non-ELI course work.

To prepare international students to enter into academic life at George Fox University as full and successful participants, ELI courses develop the students' general English proficiency, academic skills, and cultural, spiritual, and social awareness. Lower-level courses stress basic language skills, whereas higher-level courses concentrate increasingly on academic skills.

The core courses at each level develop speaking, listening, reading, and writing skills, as well as vocabulary and grammar. Cultural orientation, interaction with native speakers in the university community, and attendance at campus functions and academic lectures are incorporated into ELI learning activities.

At the highest level, students enroll for credit in one regular academic course together with ELI courses that are designed to help develop the language and academic skills necessary for success. In order to successfully complete the ELI and be admitted to George Fox University as a traditional undergraduate, students must fulfill the following: write at level 4 or higher on the ELI writing test; successfully complete the advanced level of the ELI with a grade of at least C in every class; earn a grade of at least C (no less than 70 percent) in the designated regular academic course; receive the recommendation of ELI faculty based on English language skills and academic performance. After completing the ELI, international students enroll for at least 12 credits in non-ELI courses at George Fox and pay regular tuition. During their first semester they are also required to take ESLA 295 Writing Tutorial (1) to support their transition.

Students receive academic credit for their ELI course work as follows: up to 16 credits for 100-level courses

and up to 15 credits for 200-level courses. ELI credit counts as elective credit toward a bachelor's degree.

Academic Programs

Program Name	Degrees Offered	Academic Department
Accounting	Major (BA), Minor	business and economics
Allied Health	Major (BS)	biology
Applied Science	Major (BS)	engineering
Art	Major (BA), Interdisciplinary Major, Minor	visual arts
Concentrations in: Graphic Design		
Studio Arts		
Athletic Training	Bachelor of Science in Athletic Training (BSAT)	health and human performance
Biblical Studies	Major (BA), Interdisciplinary Major, Minor	religious studies
Biology	Major (BS), Minor	biology
Concentrations in: Cell and Molecular Biology		
Ecology and Field Biology		
General Biology		
Systems and Structural Biology		
Business Administration	Major (BA), Minor	business and economics
Concentrations in: Finance		
International Business		
Management		
Marketing		
Camping: Administrative	Minor	religious studies
Camping: Programming	Minor	religious studies
Chemistry	Major (BS), Minor	chemistry
Concentrations in: Biochemistry		
Chemistry		
Forensics		
Christian Ministries	Major (BA), Interdisciplinary Major	religious studies
Concentrations in: Church Recreation		
Educational Ministry		
Missions		
Youth Ministry		
Christian Ministries: Church Recreation	Minor	religious studies
Christian Ministries: Educational Ministry	Minor	religious studies
Christian Ministries: Missions	Minor	religious studies
Christian Ministries: Youth Ministry	Minor	religious studies
Church Music	Minor	performing arts

Program Name	Degrees Offered	Academic Department
Cinema and Media Communication Concentrations in: Audio Production Film Studies Journalism Multimedia/Animation Production	Major (BA), Minor	communication arts
Coaching	Minor	health and human performance
Cognitive Science	Major (BS)	psychology
Communication Arts	Major (BA), Minor	communication arts
Computer Science	Major (BS)	computer science
Computer and Information Science	Minor	computer science
Conflict Management	Certificate	political science
Economics	Major (BA), Minor	business and economics
Elementary Education	Major (BS)	education
Engineering Concentrations in: Civil Engineering Computer Engineering Electrical Engineering Mechanical Engineering	Major (BS)	engineering
Family and Consumer Sciences Concentrations in: Family and Consumer Sciences Fashion Merchandising/Interior Design Foods and Nutrition in Business Cooperative 3-1 Degree Program with the Fashion Institute of Design and Merchandising	Major (BS), Minor	family and consumer sciences
Fashion Merchandising/Interior Design	Minor	family and consumer sciences
Foods and Nutrition	Minor	family and consumer sciences
French	Minor	communication arts
Health	Minor	health and human performance
Health and Human Performance Concentrations in: Fitness Management Health Preteaching Physical Education Preteaching	Major (BS), Interdisciplinary Major	health and human performance
Health Teaching	Minor	health and human performance

Program Name	Degrees Offered	Academic Department
History	Major (BA), Minor	History
Information Systems	Major (BS)	computer science
International Studies	Major (BA), Minor	international studies
Journalism	Major (BA)	communication arts
Leadership Studies	Minor	business and economics
Literature	Minor	writing/literature
Mathematics	Major (BS), Minor	math
Music	Major (BA), Interdisciplinary Major, Minor	performing arts
Concentrations in: Composition		
General		
Performance		
Preteaching		
Music Education	Major (BA)	performing arts
Music Theatre	Minor	performing arts
Nursing	Major (BS)	nursing
Organizational Communication	Major (BA)	communication arts
Peace Studies	Minor	political science
Philosophy	Major (BA), Minor	religious studies
Political Science	Major (BA), Minor	political science
Psychology	Major (BAor BS), Minor	psychology
Quaker Studies	Minor	religious studies
Recreation	Minor	health and human performance
Religion	Major (BA), Interdisciplinary Major, Minor	religious studies
Romance Languages	Minor	communication arts
Social Welfare	Minor	sociology & social work
Social Work	Bachelor of Social Work (BSW)	sociology & social work
Sociology	Major (BA), Minor	sociology & social work
Concentrations in: Community and Families		
Global and Cultural Studies		
Social Justice and Inequality		
Spanish	Major (BA), Minor	communication arts
Teaching English to Speakers of Other Languages (TESOL)	Minor	communication arts
Theatre	Major (BA), Interdisciplinary Major, Minor	performing arts
Concentrations in: Acting/Directing		
Design/Technology		
Women's Studies	Minor	writing/literature
Writing	Minor	writing/literature
Writing/Literature	Major (BA)	writing/literature

Undergrad Academic Departments

- Biology
- Business and Economics
- Chemistry
- Communication Arts/Modern Languages/English Language Institute
- Computer Science
- Education
- Engineering
- Family and Consumer Sciences
- Health and Human Performance
- History
- International Studies
- Math
- Nursing
- Performing Arts (Music, Theatre)
- Political Science
- Psychology
- Religious Studies
- Sociology/Social Work
- Visual Arts
- Writing/Literature

Biology Majors and Minors

The following majors and minors are offered by the Department of Biology at George Fox University.

Majors

- Allied Health *(offered in conjunction with the Department of Health and Human* Performance)
- BS in Biology

Minors

- Biology

More information about programs and faculty of the Department of Biology can be found here.

BS in Allied Health

Allied health offers a 52-semester-hour interdisciplinary course of study, designed to prepare students for work in the field of physical therapy. The major includes strong emphasis on the biology and health and human performance fields. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Each of the elective courses listed below are entrance requirements for some physical therapy programs. The 15-hour requirement allows the student to tailor his or her course package to fit a specific physical therapy graduate program(s).

Special General Education Recommendations

Students are recommended to select the general education options listed below. These courses are required by most physical therapy graduate programs:

COMM 100 Introduction to Communication (3)
PSYC 150 General Psychology (3)

Major Requirements

Core Requirements (37 hours required)
BIOL 331 Human Anatomy & Physiology I (4)
BIOL 332 Human Anatomy & Physiology II (4)
CHEM 211 General Chemistry I (4)
CHEM 212 General Chemistry II (4)
PHYS 201 General Physics I (4)
PHYS 202 General Physics II (4)
MATH 240 Statistical Procedures (3)
HHPE 394 Kinesiology (3)
PSYC 420 Abnormal Psychology (3)
Students must choose one of the following courses:
BIOL 475 Field Experience (4)
HHPE 475 Fitness Management Field Experience (4)

Required Electives (15 hours required)

Students must choose at least 15 semester hours from the following courses:
BIOL 211 General Biology I (4)
BIOL 212 General Biology II (4)
BIOL 322 Comparative Vertebrate Anatomy (4)
BIOL 330 Animal Physiology (4)
BIOL 350 Genetics (4)
BIOL 370 Microbiology (4)
BIOL 420 Cell Biology (4)
CHEM 331 Organic Chemistry I (4)
CHEM 332 Organic Chemistry II (4)
CHEM 341 Biochemistry I (4)
CHEM 342 Biochemistry II (4)
HHPE 390 Care and Prevention of Athletic Injuries (3)
HHPE 400 Recognition of Athletic Injuries (3)
HHPE 430 Exercise Physiology (3)
HHPE 470 Motor Development and Motor-Skill Learning (3)
MATH 201 Calculus I (4)
PSYC 310 Lifespan Human Development (3)

BS in Biology

This major offers a 54-semester-hour course of study, enabling students to pursue a variety of careers that include research, the health professions, teaching, and
non-science fields that require critical-thinking skills. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Special General Education Requirements

The chemistry and mathematics courses (listed below) also fulfill up to 12 hours of the sciences requirement for general education. A minimum grade of C- must be obtained in all biology and chemistry courses for graduation.

Major Requirements

Requirements for the biology major consist of 10 semester hours in core biology courses, and 20 hours in chemistry and mathematics, and 24 hours of biology courses based on a selected concentration to include the following courses:

Biology (10 hours)
BIOL 211 General Biology I (4)
BIOL 212 General Biology II (4)
BIOL 490 Biological Exploration (2)

Chemistry (16 hours)
CHEM 211 General Chemistry I (4)
CHEM 212 General Chemistry II (4)
CHEM 331 Organic Chemistry I (4)
CHEM 332 Organic Chemistry II (4)

Mathematics (4 hours)
MATH 190 Precalculus Mathematics (4) or above (MATH 201 Calculus I or MATH 202 Calculus II highly recommended)

Concentrations (24 hours)
General Courses listed in two areas under the General Concentration may meet requirements for both areas of emphasis. (For example, if BIOL 390 is taken to meet the field studies requirement then it may also fulfill the diversity emphasis as well.)

Students must choose one of the following field studies courses:
BIOL 360 Ecology (4)
BIOL 380 Ornithology (4)
BIOL 390 Systematic Botany (4)
BIOL 460 Invertebrate Zoology (4)
Students must choose one of the following diversity courses:
BIOL 322 Comparative Vertebrate Anatomy (4)
BIOL 370 Microbiology (4)
BIOL 380 Ornithology (4)
BIOL 390 Systematic Botany (4)
BIOL 460 Invertebrate Zoology (4)
Students must choose one of the following form/function courses:
BIOL 310 Developmental Biology (4)
BIOL 322 Comparative Vertebrate Anatomy (4)
BIOL 330 Advanced Physiology (4)
BIOL 340 Plant Physiology (4)
BIOL 440 Advanced Human Anatomy (4)
Students must choose one of the following molecular/cell courses:
BIOL 350 Genetics (4)
BIOL 370 Microbiology (4)
BIOL 410 Molecular Biology (4)
BIOL 420 Cell Biology (4)
Students must choose two to three upper-division
BIOL electives (8-12 hours, depending on courses selected, to meet total concentration hour requirements).

Cell and Molecular Biology
BIOL 350 Genetics (4)
BIOL 370 Microbiology (4)
BIOL 410 Molecular Biology (4)
BIOL 420 Cell Biology (4)
Students must choose one of the following courses:
BIOL 310 Developmental Biology (4)
BIOL 322 Comparative Vertebrate Anatomy (4)
BIOL 330 Advanced Physiology (4)
BIOL 430 Histology (4)
Students must choose one of the following field studies courses:
BIOL 360 Ecology (4)
BIOL 380 Ornithology (4)
BIOL 390 Systematic Botany (4)

BIOL 460 Invertebrate Zoology (4)
Students are strongly encouraged to take both
CHEM 341 and CHEM 342 Biochemistry (8).

Systems and Structural Biology
BIOL 330 Advanced Physiology (4)
BIOL 420 Cell Biology (4)
Students must choose one of the following courses:
BIOL 322 Comparative Vertebrate Anatomy (4)
BIOL 440 Advanced Human Anatomy (4)
Students must choose one of the following courses:
BIOL 310 Developmental Biology (4)
BIOL 340 Plant Physiology (4)
Students must choose one of the following field studies courses:
BIOL 360 Ecology (4)
BIOL 380 Ornithology (4)
BIOL 390 Systematic Botany (4)
BIOL 460 Invertebrate Zoology (4)
Students must choose one of the following molecular/cell courses:
BIOL 350 Genetics (4) - *strongly recommended*
BIOL 370 Microbiology (4)
BIOL 410 Molecular Biology (4)
BIOL 420 Cell Biology (4)

Ecology and Field Biology
BIOL 360 Ecology (4)
BIOL 322 Comparative Vertebrate Anatomy (4)
BIOL 350 Genetics (4)
Students must choose two of the following courses:
BIOL 330 Advanced Physiology (4)
BIOL 340 Plant Physiology (4)
BIOL 380 Ornithology (4)
BIOL 390 Systematic Botany (4)
BIOL 460 Invertebrate Zoology (4)
Students must choose one of the following molecular/cell courses:
BIOL 350 Genetics (4)
BIOL 370 Microbiology (4)
BIOL 410 Molecular Biology (4)
BIOL 420 Cell Biology (4)

Students are strongly encouraged to take MATH 240 Statistical Procedures (3).

Thesis Option

Students can petition the department thesis committee by the end of the fall semester of their junior year for permission to do original research as part of their degree requirement. Students allowed to pursue the thesis option must:

1. Complete an acceptable research proposal and the Research Methods course (BIOL 384) by the end of

the spring semester of the junior year.
2. Take up to 4 hours of Biological Research (BIOL 465) between the spring semester of their junior year and graduation, and Senior Thesis (BIOL 496) during the spring semester of their senior year.
3. Complete a written thesis acceptable to the thesis committee by April 1 of their senior year.
4. Prepare a poster and give an oral presentation of their research prior to graduation.

The department considers this an honor to be noted on the student's transcript. The thesis is designed to enhance a student's preparation for graduate or professional school.

Biology Minor(20 hours)

Minor Requirements

Students must choose one of the following groups of courses:
BIOL 211 General Biology I (4) *and*
BIOL 212 General Biology II (4)
BIOL 331 Human Anatomy & Physiology I (4) *and*
BIOL 332 Human Anatomy & Physiology II (4)
Students must choose 12 semester hours of upper-division biology (BIOL) courses.

Business and Economics Majors and Minors

The following majors and minors are offered by the Department of Business and Economics at George Fox University.

Majors

- BA in Accounting
- BA in Business Administration
- BA in Economics

In addition, an interdisciplinary major in organizational communication is offered by the communication arts department that includes coursework in business and other course disciplines.

Minors

- Accounting
- Business Administration
- Economics

In addition, an interdisciplinary minor in leadership is offered in conjunction with Student Life that includes coursework in business and other course disciplines.

More information about programs and faculty of the Department of Business and Economics can be found here.

BA in Accounting

Accounting Major (BA)

This major offers a 52-semester-hour course of study, enabling students to acquire the necessary technical and professional skills for successful careers in public, managerial, or governmental accounting. Like other majors in the Department of Business and Economics, it requires completion of a general business core and COMM 100 Introduction to Communication as well as specialized courses. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Special General Education Requirements

COMM 100 Introduction to Communication (3)

Students must choose a MATH course, not a CSIS course, for the general education mathematics requirement

Major Requirements

Business Core (30 hours)

ACCT 271 Principles of Financial Accounting (3)
ACCT 272 Principles of Managerial Accounting (3)
BUSN 110 Introduction to Business (3)
BUSN 240 Statistics for Business and Economics (3)
BUSN 300 Management (3)
BUSN 310 Financial Management (3)
BUSN 340 Marketing (3)
BUSN 360 Business Law (3)
ECON 201 Principles of Microeconomics (3)
ECON 202 Principles of Macroeconomics (3)

Accounting Core (22 hours)

ACCT 350 Taxation (4)

ACCT 370 Accounting Information Systems (2)
ACCT 371 Financial Accounting and Reporting I (4)
ACCT 372 Financial Accounting and Reporting II (4)
ACCT 471 Advanced Accounting (4)
ACCT 472 Auditing (4)

Electives
Students are encouraged to consider the following electives to enhance their major:
ACCT 405 Volunteer Tax Assistance (1) (encouraged)
ACCT 475 Field Experience (1-6) (encouraged)
BUSN 390 Ethics in the Workplace (3)
BUSN 485 Selected Topics (1-3)
BUSN 495 Special Study (1-3)
ECON 340 Public Economics (3)
ECON 360 Global Political Economy (3)

Faculty will work with students on an individual basis to prepare them for the national certified public accounting examination. The broad educational experience provided by George Fox University should enable an accounting major the flexibility to design his or her own program.

Accounting Minor (20 hours)

The accounting minor is designed to provide students in other majors a deeper understanding of accounting and how it impacts organizations.

Minor Requirements
ACCT 271 Principles of Financial Accounting (3)
ACCT 272 Principles of Managerial Accounting (3)
ACCT 371 Financial Accounting and Reporting I (4)
ACCT 372 Financial Accounting and Reporting II (4)

Students must choose at least 2 of the following courses:
ACCT 350 Taxation (4)
ACCT 370 Accounting Information Systems (2)
ACCT 471 Advanced Accounting (4)
ACCT 472 Auditing (4)
ACCT 485 Selected Topics (1-3)

BA in Business Administration
Business Administration Major (BA)

This major offers a 42-semester-hour course of study designed to prepare students for successful and rewarding careers focused on performing and managing the business function of both private and public organizations. Like other majors in the Department of Business and Economics, it requires completion of a set of core courses, including COMM 100 Introduction to Communication as well as specialized courses in a selected concentration. The requirements for a business administration major include four components: the Introduction to Business course, a principles core of courses, a functional core of courses, and completion of a concentration in one of the following areas: finance, international business, management, or marketing. To remain in the major, a student must maintain a minimum cumulative GPA of 2.75 in the major. Also, a minimum grade of C- must be obtained in all major courses for graduation. Field experiences and internships are encouraged.

Special General Education Requirements
COMM 100 Introduction to Communication (3)
Students must choose a MATH course, not a CSIS course, for the general education mathematics requirement

Major Requirements

Freshman Year (3 hours)
BUSN 110 Introduction to Business (3)

Principles Core (15 hours)
ACCT 271 Principles of Financial Accounting (3)
ACCT 272 Principles of Managerial Accounting (3)
BUSN 240 Statistics for Business and Economics (3)
ECON 201 Principles of Microeconomics (3)
ECON 202 Principles of Macroeconomics (3)

Functional Core (12 hours)
BUSN 300 Management (3)
BUSN 310 Financial Management (3)
BUSN 340 Marketing (3)
BUSN 380 Information Systems (3)

Concentrations (12 hours)
Only one concentration will be listed on the transcript and registration priority will be given to students in that concentration for senior-level courses. Students must select one of the following concentrations:

Finance
BUSN 471 Finance I - Investments, Financial Markets, and Institutions (4)
BUSN 472 Finance II - Advanced Corporate Finance (4)
BUSN 491 Senior Capstone - Strategy and Planning (2)
BUSN 492 Senior Capstone - Strategy and Implementation (2)

International Business
BUSN 440 International Management (4)
BUSN 491 Senior Capstone - Strategy and Planning (2)
BUSN 492 Senior Capstone - Strategy and Implementation (2)

ECON 460 International Trade and Finance (4)

Management
BUSN 480 Organizational Behavior (4)
BUSN 491 Senior Capstone - Strategy and Planning (2)
BUSN 492 Senior Capstone - Strategy and Implementation (2)
ECON 430 Managerial Economics (4)

Marketing
BUSN 420 Marketing Communication and Strategy (4)
BUSN 450 Marketing Research and Decision Making (4)
BUSN 491 Senior Capstone - Strategy and Planning (2)
BUSN 492 Senior Capstone - Strategy and Implementation (2)

Electives
Students are encouraged to consider the following electives beyond the major to enhance their major:
ACCT 371 and ACCT 372 Financial Accounting and Reporting (4 each) (recommended for Finance concentration)
ACCT 405 Volunteer Tax Assistance (1)
BUSN 390 Ethics in the Workplace (3)
BUSN 475 Field Experience (1-6) (encouraged for Finance, Management, and Marketing concentrations)
BUSN 485 Selected Topics (1-3)
BUSN 495 Special Study (1-3)
ECON 340 Public Economics (3)
ECON 360 Global Political Economy (3)

Business Administration Minor (21 hours)

The business administration minor is designed to provide students in other majors with a basic foundation in business to assist them in attending to the management challenges in their chosen fields.

Minor Requirements
ACCT 271 Principles of Financial Accounting (3)
ACCT 272 Principles of Managerial Accounting (3)
BUSN 110 Introduction to Business (3)
BUSN 300 Management (3)
BUSN 340 Marketing (3)
ECON 202 Principles of Macroeconomics (3)
Students must choose 3 semester hours of business (BUSN) coursework (see advisor)

BA in Economics
Economics Major (BA)

Economics is the study of how human societies coordinate to meet needs. It is thus a science concerned with decision making, allocation, social customs, and political realities. It draws upon philosophy, mathematics, history, and other social sciences to study such issues as individual and household choice making, the behavior of firms and industries, the allocative and regulatory roles of government, and the social challenges of economic growth, distribution, unemployment, inflation, globalization, and environmental issues. In keeping with the university's mission and objectives, the faculty examine economic topics from the perspectives of faith, emphasizing such themes as service, stewardship, and justice.

The economics major offers a 41-semester-hour course of study, enabling students to prepare for careers as economists in business, government, or education, as well as offering an undergraduate social science major of interest to students anticipating graduate study in business administration, law, public policy, public administration, or advanced studies in economics. Like other majors in the Department of Business and Economics, it requires completion of general core classes, COMM 100 Introduction to Communication and specialized selected courses. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Major Requirements (41 hours)
BUSN 240 Statistics for Business and Economics (3)
ECON 201 Principles of Microeconomics (3)
ECON 202 Principles of Macroeconomics (3)
ECON 340 Public Economics (3)
ECON 360 Global Political Economy (3)
ECON 430 Managerial Economics (4)
ECON 460 International Trade and Finance (4)
Students must choose 6 semester hours from the following courses:
ECON 475 Field Experience (3-6)
ECON 485 Selected Topics (2-3)
ECON 495 Special Study (2-3)
Students must choose 6 additional semester hours from supporting electives in business, economics, or accounting (BUSN, ECON, or ACCT)
Students must choose 6 semester hours from the following outside electives:
GSCI 485 Selected Topics: History and Philosophy of Science (3)
MATH 201 Calculus I (4)
MATH 202 Calculus II (4)
MATH 301 Calculus III (3)
MATH 310 Differential Equations with Linear Algebra (4)
MATH 320 Linear Algebra (3)
PHIL 230 Ethics (3)
PHIL 260 Social Theory (3)
PHIL 380 History of Philosophy Survey (3)
PHIL 382 History of Philosophy Seminar (3)

Economics Minor (18 hours)

The economics minor is designed to provide students in other majors with a broader view of how the economy impacts organizations both domestically and internationally.

Minor Requirements

ECON 201 Principles of Microeconomics (3)
ECON 202 Principles of Macroeconomics (3)
Students must choose 12 semester hours from the following:
BUSN 240 Statistics for Business and Economics (3)
ECON 340 Public Economics (3)
ECON 360 Global Political Economy (3)
ECON 430 Managerial Economics (4)
ECON 460 International Trade and Finance (4)
ECON 475 Field Experience (3-6)
ECON 485 Selected Topics (2-3)
ECON 495 Special Study (2-3)

Leadership Studies Minor (20-23 hours)

The leadership studies minor is designed to help students develop their leadership skills through study and practice. Participants will learn important leadership concepts and theories and put these principles into action through hands-on leadership experiences.

Minor Requirements

COMM 380 Leadership Communication (3)
LEAD 475 Leadership Experience (1-3) (or an approved alternative practicum)
LEAD 491 Leadership Seminar I (1)
LEAD 492 Leadership Seminar II (1)
LEAD 493 Leadership Seminar III (1)
LEAD 494 Leadership Seminar IV (1)
SOCI 300 Group Dynamics (3)
Students must choose one of the following courses:
BUSN 300 Management (3)
COMM 324 Argumentation and Critical Thinking (3)
PSCI 410 Community Mediation (3)
Students must choose one of the following courses:
BUSN 480 Organizational Behavior (4)
COMM 310 Conflict Resolution (3)
PSYC/SOCI 350 Social Psychology (3)
Students must choose one of the following courses:
LITR 360 Values Through Story and Myth (3)
PHIL 230 Ethics (3)
RELI 350 Spiritual Formation (3)
Courses cannot count for both a major and a minor or for general education.

Chemistry Majors and Minors

Majors
• BS in Chemistry
Minors
• Chemistry

More information about programs and faculty of the Department of Chemistry can be found here.

BS in Chemistry
Chemistry Major (BS)

The chemistry major offers a 58-75-semester-hour course of study with concentrations in chemistry, biochemistry, and forensics. The major is designed for students who plan to enter a variety of careers including teaching, chemical research, environmental chemistry, forensic science, pharmacy, graduate school, and medicine. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Special General Education Requirements
The mathematics and physics courses listed below also fulfill up to 12 hours of the science requirements for general education. A minimum grade of C- must be obtained in all chemistry courses for graduation.

Major Requirements
Chemistry Core (28 hours)
CHEM 211 General Chemistry I (4)
CHEM 212 General Chemistry II (4)
CHEM 310 Analytical Chemistry (4)
CHEM 331 Organic Chemistry I (4)
CHEM 332 Organic Chemistry II (4)
CHEM 401 Physical Chemistry I (4)
CHEM 402 Physical Chemistry II (4)

Mathematics (11 hours)
MATH 201 Calculus I (4)
MATH 202 Calculus II (4)
MATH 301 Calculus III (3)

Physics (8 hours)
Students must choose one of the following sequences:
PHYS 201 General Physics I (4) *and* PHYS 202 General Physics II (4)
PHYS 211 General Physics with Calculus I (4) *and* PHYS 212 General Physics with Calculus II (4)

Concentrations
Students must select one of the following concentrations:

Chemistry (11-12 hours)
CHEM 320 Advanced Inorganic Chemistry (4)
Students must choose 2 of the following courses:
CHEM 341 Biochemistry I (4)
CHEM 380 Advanced Organic Chemistry (4)

CHEM 430 Advanced Instrumental Analysis (3)

Biochemistry (27-28 hours)
BIOL 211 General Biology I (4)
BIOL 212 General Biology II (4)
CHEM 341 Biochemistry I (4)
CHEM 342 Biochemistry II (4)
Students must choose 3 of the following courses (at least one course must be from CHEM and one from BIOL):
BIOL 310 Developmental Biology (4)
BIOL 330 Animal Physiology (4)
BIOL 350 Genetics (4)
BIOL 410 Molecular Biology (4)
BIOL 420 Cell Biology (4)
CHEM 320 Advanced Inorganic Chemistry (4)
CHEM 380 Advanced Organic Chemistry (4)
CHEM 430 Advanced Instrumental Analysis (3)

Forensics (23-24 hours)
BIOL 211 General Biology I (4)
BIOL 212 General Biology II (4)
CHEM 341 Biochemistry I (4)
CHEM 380 Advanced Organic Chemistry (4)
Students must choose 2 of the following courses (at least one course must be from CHEM and one from BIOL):
BIOL 310 Developmental Biology (4)
BIOL 330 Animal Physiology (4)
BIOL 350 Genetics (4)
BIOL 410 Molecular Biology (4)
BIOL 420 Cell Biology (4)
CHEM 320 Advanced Inorganic Chemistry (4)
CHEM 342 Biochemistry II (4)
CHEM 430 Advanced Instrumental Analysis (3)

Thesis Option
Philosophy: The opportunity to pursue a chemistry thesis is an honor. Consequently, the thesis option will be noted on a student's transcript. The thesis is designed to enhance a student's preparation for graduate or professional school. The heart of the thesis is original research conducted under the guidance of a chemistry faculty member.
Eligibility: The thesis option may be pursued by any chemistry major in good academic standing. Students wishing to pursue a thesis must:
1. Consult with their research advisor about an acceptable research project.
2. In writing, notify the chemistry thesis committee (composed of the chemistry department faculty) of their intention to conduct research. The thesis committee must receive notification by the end of the fall semester of the student's junior year.

After the beginning of the spring semester of a student's junior year, students must petition the department thesis committee for permission to pursue thesis research. Students who pursue the thesis option must:
1. Enroll in at least 1 hour of Chemical Research (CHEM 465) each semester, beginning the spring semester of their junior year, through the spring semester of their senior year.
2. Submit the first copy of a written thesis to the thesis committee by April 1 of their senior year. The final, edited copy is due to the thesis committee the last day of classes during the spring semester.

3. Prepare a poster and give an oral presentation of their research. In some cases, students may apply research conducted off campus to the CHEM 465 requirement. Students who participate in off-campus research programs may petition the thesis committee for special consideration of the thesis option. The thesis committee must receive the petition by the beginning of the fall semester of the student's senior year. The thesis committee may elect to substitute the off-campus experience for a portion of the CHEM 465 requirement.

Chemistry Minor (23-24 hours)

Minor Requirements
CHEM 211 General Chemistry I (4)
CHEM 212 General Chemistry II (4)
CHEM 331 Organic Chemistry I (4)
CHEM 332 Organic Chemistry II (4)
Students must choose 2 of the following courses:
CHEM 310 Analytical Chemistry (4)
CHEM 320 Advanced Inorganic Chemistry (4)
CHEM 341 Biochemistry I (4)
CHEM 342 Biochemistry II (4)
CHEM 380 Advanced Organic Chemistry (4)
CHEM 401 Physical Chemistry I (4)
CHEM 402 Physical Chemistry II (4)
CHEM 430 Advanced Instrumental (3)

Communication Arts Majors and Minors

The Department of Communication Arts includes communication arts, video production, foreign languages (including Spanish, French, and Japanese), and English as a second language. The following majors and minors are offered by the Department of Communication Arts at George Fox University.

Majors

- BA in Cinema and Media Communications
- BA in Communication Arts
- BA in Journalism
- BA in Organizational Communication
- BA in Spanish

Minors

- Cinema and Media Communications
- Communication Arts
- French
- Romance Languages
- Spanish
- Teaching English to Speakers of Other Languages (TESOL) *(offered in conjunction with the undergraduate teacher education department)*

English Language Institute

The English Language Institute (ELI) is a program within the communication arts department. Additional information is available regarding ELI programs for international and immigrant students learning English as a second language.

More information about the programs and faculty of the Department of Communication Arts can be found here.

BA in Cinema and Media Communications
Cinema and Media Communication Major (BA)

The cinema and media communication major offers a 45-semester-hour course of study that combines the liberal arts emphasis of communication arts with hands-on experiences in video, film, and digital media production. An extensive selection of electives allows the student to design a program that fits individual needs or interests.

Major Requirements

Theory Core (9 hours)
CMCO 160 Introduction to Film Studies (3)
COMM 230 Mass Media and Popular Culture (3)
COMM 400 Critical Approaches to Communication (3)

Production Core (18 hours)
CMCO 230 Introduction to Video Production (3)
CMCO 243 Introduction to Audio (3)
CMCO 250 Digital Multimedia Production (3)
CMCO 260 Scriptwriting for Media (3)
CMCO 350 Editing Video (3)
CMCO 475 Field Experience (2)
CMCO 490 Senior Portfolio (1)

Concentrations (18 hours)
Students must choose one of the following concentrations:

Audio Production
Students in the audio production concentration focus on audio techniques for music recording and mixing; sound design for film, video, and new media; and production for radio.

Required (6 hours):
CMCO 343 Sound Design (3)
CMCO 344 Studio Sound Recording (3)

Electives (12 hours):
CMCO 233 Contemporary Christian Songwriting and Producing (3)
CMCO 481 Advanced Production Workshop I (3)
CMCO 482 Advanced Production Workshop II (3)
MUSI 110 Understanding Jazz (2)
MUSI 180 Introduction to Music Technology (2)
THEA 330 Stage Lighting and Sound (3)
-- OR --
Up to 16 semester hours of coursework at the Contemporary Music Center Program in Martha's Vineyard.

Film Studies
Although the lines between video and film are blurring more and more with each passing year, this concentration is designed to allow those who prefer working with film to gain experience working with 8mm and/or 16mm film.

Required (15 hours):
CMCO 320 Dramatic Scriptwriting (3)
CMCO 333 Camera and Lighting (3)
CMCO 430 Producing and Directing Video (3)
Students must choose 3 semester hours from the following courses:
CMCO 475 Field Experience (2-10)
CMCO 495 Special Study (1-3)
Students must choose one of the following courses:
CMCO 481 Advanced Production Workshop I (3)
CMCO 482 Advanced Production Workshop II (3)

Electives (3 hours):
CMCO 220 International Film Studies (3)
CMCO 310 Intermediate Directing (3)
CMCO 343 Sound Design (3)
CMCO 355 Event Video Production (3)
CMCO 360 Animation I (3)
CMCO 363 Motion Graphics and Special Effects (3)
-- OR --
Up to 15 semester hours of course work at the Los Angeles Film Studies Center
Students may also receive credit for hands-on classes offered at the Northwest Film Center (NWFC), allowing them to work more extensively in the film medium. Since NWFC offerings are subject to change, students should check to see if NWFC classes in which they are interested may be counted toward their degree.

Journalism
The journalism concentration encompasses writing, editing, and producing material for print, radio, television, and Internet news media, as well as opportunities for documentary video production.

Required (12 hours):
CMCO 270 Broadcast News I (3)
CMCO 370 Broadcast News II (3)
CMCO 470 Journalism II (3)
WRIT 230 Introduction to Journalism (3)

Electives (6 hours):
CMCO 333 Camera and Lighting (3)
CMCO 355 Event Video Production (3)
CMCO 430 Producing and Directing Video (3)
CMCO 475 Field Experience (2-10)
CMCO 481 Advanced Production Workshop I (3)
CMCO 482 Advanced Production Workshop II (3)
CMCO 495 Special Study (1-3)
--OR --
Up to 15 semester hours of credit of course work at the Summer Institute for Journalism in Washington, D.C.

Multimedia/Animation
Students in the multimedia/animation concentration study techniques for designing Internet websites, producing 2-D and 3-D animation, and special effects using a combination of creativity, aesthetics, and

computer software.

Required (6 hours):
CMCO 360 Animation I (3)
CMCO 363 Motion Graphics and Special Effects (3)

Electives (12 hours):
ARTS 230 Beginning Photography (3)
ARTS 330 Intermediate Photography (3)
ARTS 350 Graphic Design 2: Typography (3)
ARTS 450 Graphic Design 3: Design Applications (3)
CMCO 333 Camera and Lighting (3)
CMCO 355 Event Video Production (3)
CMCO 460 Advanced Animation (3)
CMCO 475 Field Experience (2-10)
CMCO 481 Advanced Production Workshop I (3)
CMCO 482 Advanced Production Workshop II (3)
CSIS 314 Client-Server Systems (3)
CSIS 330 Computer Graphics (3)
-- OR --
Up to 15 semester hours from the Australia Studies Center or the ORU Media Technology Summer Institute.

Production
Students in the production concentration learn all the basics of film and video production, from scriptwriting to postproduction. In addition, students have the opportunity to concentrate on their favorite aspects of production, including directing, cinematography, editing, and sound.

Required (6 hours):
CMCO 333 Camera and Lighting (3)
CMCO 481 Advanced Production Workshop I (3)

Electives (12 hours):
CMCO 310 Intermediate Directing (3)
CMCO 320 Dramatic Scriptwriting (3)
CMCO 343 Sound Design (3)
CMCO 355 Event Video Production (3)
CMCO 360 Animation I (3)
CMCO 363 Motion Graphics and Special Effects (3)
CMCO 430 Producing and Directing Video (3)
CMCO 475 Field Experience (2-10)
CMCO 482 Advanced Production Workshop II (3)
CMCO 495 Special Study (1-3)

Cinema and Media Communications Minor (18 hours)

Minor Requirements

CMCO 230 Introduction to Video Production (3)
CMCO 250 Digital Multimedia Production (3)
Students must choose one of the following courses:
COMM 230 Mass Media and Popular Culture (3)
CMCO 160 Introduction to Film Studies (3)
Students must choose one of the following courses:
CMCO 260 Scriptwriting for Media (3)
CMCO 320 Dramatic Scriptwriting (3)
Students must choose 6 semester hours from the following:
COMM 230 Mass Media and Popular Culture (3)
CMCO 160 Introduction to Film Studies (3)
CMCO 243 Introduction to Audio (3)
CMCO 260 Scriptwriting for Media (3)
CMCO 270 Broadcast News I (3)
CMCO 320 Dramatic Scriptwriting (3)
CMCO 355 Event Video Production (3)
CMCO 475 Field Experience (2-10)
CMCO 495 Special Study (1-3)

BA in Communication Arts

Communication Arts Major (BA)

The communication arts major offers a 39-semester-hour course of study that features an interdisciplinary approach to communication that integrates the interests of speech communication, journalism, and media with a common core of courses in communication and rhetorical theory. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Major Requirements

Performance Core (12 hours)

COMM 200 Persuasive Communication (3)
COMM 210 Interpersonal Communication (3)
COMM 324 Argumentation and Critical Thinking (3)
Students must choose one of the following courses:
WRIT 230 Introduction to Journalism (3)
WRIT 310 Desktop Publishing and Design (3)

Theory Core (9 hours)

COMM 300 Communication Theory and Research (3)
COMM 400 Critical Approaches to Communication (3)
COMM 480 Senior Capstone: Ethical and Spiritual Dimensions of Communication (3)

Practicum (3 hours)

Students must choose 3 semester hours from the following courses:
COMM 305 Professional Communication Activities (1-3)

COMM 275/475 Field Experience (pass/no pass grading only) (1-10)

Electives (15 hours)
(Students should choose their electives under the guidance of their advisors. Not more than 3 hours should be in practicum courses.)
CHMN 420 Speaking as Ministry (3)
Any additional communication arts (COMM) coursework
Any additional cinema & media communication (CMCO) coursework
Students may also choose up to 6 semester hours of writing courses toward their major electives from the following:
WRIT 210 Practical Grammar and Editing (3)
WRIT 230 Introduction to Journalism (3)
WRIT 310 Desktop Publishing and Design (3)
WRIT 330 Writing for Publication (3)

Communication Arts Minor (20 hours)

Minor Requirements
COMM 100 Introduction to Communication (3)
COMM 300 Communication Theory and Research (3)
Students must choose one of the following courses:
COMM 200 Persuasive Communication (3)
COMM 210 Interpersonal Communication (3)
Students must choose 11 semester hours from the following:
CMCO 230 Introduction to Video Production (3)
COMM 230 Mass Media and Popular Culture (3)
COMM 305 Professional Communication Activities (2 hours maximum)
COMM 310 Conflict Resolution (3)
COMM 320 Introduction to Public Relations (3)
COMM 340 General and Cultural Linguistics (3)
COMM 360 Nonverbal Communication (3)
COMM 380 Leadership Communication (3)
COMM 400 Critical Approaches to Communication (3)
THEA 220 Oral Interpretation of Literature (3)
WRIT 230 Introduction to Journalism (3)

French Minor (20-24 hours)

The French minor is designed to enable students to acquire an intermediate high to advanced proficiency in French in all four skills (reading, writing, listening, and speaking) as defined by the American Council on the Teaching of Foreign Languages (ACTFL). Students are required to spend one semester abroad in a French-speaking country to complete the French minor, gaining cross-cultural experience and literacy in the process.

Prerequisite for Minor Entry
Students must demonstrate proficiency in French 202 Intermediate French II (4) (or placement exam) prior to entry into the French minor.

Minor Requirements
FREN 301 Intermediate/Advanced French I (4)
FREN 302 Intermediate/Advanced French II (4)
FREN 490 Study Abroad (12-16 hours, depending on placement exam, in an approved program in a French-speaking country)

BA in Journalism
Journalism Major (BA)

The journalism major offers a 39-semester-hour course of study that combines aspects from communications, cinema and media, and writing. The major requires that students take courses in print and broadcast as well as advanced coursework in an area of specialization. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Major Requirements

Core Requirements (21 hours)
CMCO 270 Broadcast News I (3)
COMM 200 Persuasive Communication (3)
COMM 230 Mass Media and Popular Culture (3)
COMM 480 Senior Capstone: Ethical and Spiritual Dimensions of Communication (3)
JOUR 230 Introduction to Journalism (3)
JOUR 470 Journalism II (3)
WRIT 210 Practical Grammar and Editing (3)

Concentrations (18 hours)

Broadcast
COMM 475 Field Experience (3) — One semester on–campus in broadcast
COMM 475 Field Experience (3) — One semester off–campus
Students must take the following courses:
CMCO 230 Introduction to Video Production (3)
CMCO 260 Scriptwriting for Media (3)
CMCO 370 Broadcast News II (3)
COMM 320 Introduction to Public Relations (3)

Print
WRIT 475 Field Experience (3) — One semester with *The Crescent*
WRIT 475 Field Experience (3) — One semester off–campus
Students must take the following courses:
CMCO 320 Dramatic Scriptwriting (3)
COMM 320 Introduction to Public Relations (3)
WRIT 310 Desktop Publishing and Design (3)
WRIT 330 Writing for Publication (3)

BA in Organizational Communication
Organizational Communication Major (BA)

The 40-semester-hour organizational communication major combines communication and writing courses that are particularly useful in organizational settings with marketing or management classes from the business curriculum. Graduates of the program can fill a wide range of positions, including public relations, sales, consulting, training, promotions, fund raising, and customer service. Due to the interdisciplinary nature of the major, double counting of courses will not be allowed between this major and other majors.

Major Requirements

Core Courses (30 hours)
BUSN 110 Introduction to Business (3)
COMM 210 Interpersonal Communication (3)
COMM 220/420 Intercultural Communication (3)
COMM 270 Introduction to Organizational Communication (3)
COMM 300 Communication Theory and Research (3)
COMM 320 Introduction to Public Relations (3)
COMM 480 Senior Capstone: Ethical and Spiritual Dimensions of Communication (3)
WRIT 310 Professional Writing and Desktop Publishing (3)
Students must choose one of the following courses:
COMM 200 Persuasive Communication (3)
COMM 324 Argumentation and Critical Thinking (3)
Students must choose one of the following courses:
COMM 305 Professional Communication Activities (3)
COMM 475 Field Experience (3)

Concentrations (10 hours)
Students must choose one of the following concentrations:

Internal Organizational Communication
BUSN 300 Management (3)
BUSN 480 Organizational Behavior (4)
Students must choose one of the following courses:
COMM 380 Leadership Communication (3)
COMM 390 Small Group Communication (3)

External Organizational Communication
BUSN 340 Marketing (3)
BUSN 420 Marketing Communication and Strategy (4)
Students must choose one of the following courses:
CMCO 250 Digital Multimedia Production (3)
CMCO 260 Scriptwriting for Media (3)
WRIT 230 Introduction to Journalism (3)

Romance Languages Minor (22 hours)

The romance languages minor is designed for students who are already proficient in either French or Spanish and who wish to acquire an intermediate high to advanced proficiency in both French and Spanish in all four skills (reading, writing, listening, and speaking) as defined by the American Council on the Teaching of Foreign Languages (ACTFL). Students may complete the minor through coursework in Spanish at George Fox or may choose to spend one semester abroad in either a French-speaking or Spanish-speaking country gaining cross-cultural experience and literacy in the process.

Prerequisite for Minor Entry

Students must demonstrate proficiency in the following prior to entry into the romance languages minor:
FREN 201 Intermediate French I (4) *and* FREN 202 (4) Intermediate French II (or placement exam)
SPAN 201 Intermediate Spanish I (4) *and* SPAN 202 (4) Intermediate Spanish II (or placement exam)

Minor Requirements

FREN 301 Intermediate/Advanced French I (4)
FREN 302 Intermediate/Advanced French II (4)
SPAN 301 Intermediate/Advanced Spanish I (4)
SPAN 302 Intermediate/Advanced Spanish II (4)
Students must choose one of the following options:
1. Students must choose 2 of the following courses:
SPAN 350 Latin American Culture and Civilization (3)
SPAN 410 Introduction to Spanish Literature (3)
SPAN 420 Introduction to Latin American Literature (3)
2. Students must choose at least 6 semester hours in an approved study abroad program in a Spanish-speaking or French-speaking country *(credits abroad must be 300-level or above)*.

BA in Spanish

Spanish Major (BA)

The Spanish major offers a 39-semester-hour course of study that is designed to move students toward advanced proficiency in the four skills (reading, writing, listening, and speaking) defined by the American Council on the Teaching of Foreign Languages (ACTFL). The program emphasizes the unique relationship between culture and language. Central to all course work is an examination of issues of faith and culture. In keeping with the mission of George Fox University, service components are required in some courses.
Advanced course work includes historically important works of literature and a survey of Iberian and Latin American history and culture. One semester studying abroad in a Spanish-speaking country is required to complete the Spanish major. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Prerequisite for Major Entry

Students must demonstrate proficiency in SPAN 202 Intermediate Spanish II (4) (or placement exam) prior to entry into the Spanish major.

Major Requirements
SPAN 301 Intermediate/Advanced Spanish I (4)
SPAN 302 Intermediate/Advanced Spanish II (4)
SPAN 340 Spanish Culture and Civilization (3)
SPAN 350 Latin American Culture and Civilization (3)
SPAN 410 Introduction to Spanish Literature (3)
SPAN 420 Introduction to Latin American Literature (3)
SPAN 480 Senior Capstone (3)
Students must choose 16 semester hours during a semester studying abroad

Spanish Minor (20 hours)

Prerequisite for Minor Entry
Students must demonstrate proficiency in SPAN 201 and SPAN 202 Intermediate Spanish (4 hours each) (or placement exam) prior to entry into the Spanish minor.

Minor Requirements
Students must choose one of the following options:

Option 1
SPAN 301 Intermediate/Advanced Spanish I (4)
SPAN 302 Intermediate/Advanced Spanish II (4)
SPAN 340 Spanish Culture and Civilization (3)
SPAN 350 Latin American Culture and Civilization (3)
SPAN 410 Introduction to Spanish Literature (3)
SPAN 420 Introduction to Latin American Literature (3)

Option 2
SPAN 301 Intermediate/Advanced Spanish I (4)
SPAN 302 Intermediate/Advanced Spanish II (4)
Students must choose 12 semester hours in an approved study abroad program in a Spanish-speaking country *(credits abroad must be at 300-level or above)*

Teaching English to Speakers of Other Languages (TESOL) Minor (21-23 hours)

The TESOL minor is designed to provide a basic foundation for students who are interested in teaching English to speakers of other languages, including teaching English as a foreign language overseas, and tutoring or teaching English as a second language in local church or community programs.

NOTE: Students interested in pursuing TESOL as a profession should continue their studies at the graduate level. A master's degree program is recommended for those interested in teaching at a college or community college.

Minor Requirements
COMM 340 General and Cultural Linguistics (3)

COMM 350 Introduction to TESOL (3)
COMM 343 Second Language Acquisition (3)
SOCI 310 Cultural Anthropology (3)
One year of a foreign language (6-8)
Students must choose one of the following courses:
COMM 220/420 Intercultural Communication (3)
RELI 360 Cross-Cultural Christian Outreach (3)

Computer and Information Science Majors and Minors

The function and influence of the computer is pervasive throughout society. Computers process data from banks, communications satellites, video games, and even the fuel and ignition systems of automobiles. Computer software is as commonplace in the areas of education and recreation as it is in science and business. Every field or profession relies upon computer science for the problem-solving skills and the production expertise required in the efficient processing of information. Computer scientists, therefore, function in a wide variety of roles ranging from pure theory and design to programming and marketing.

The computer and information science curriculum places an emphasis on both theoretical and practical computer science. A broad range of upper-division courses is available in such areas as artificial intelligence, the analysis of algorithms, client-server systems, computer architecture and design, computer communications, database management, and software engineering.

Majors

- BS in Computer Science
- BS in Information Systems

Minors

- Computer and Information Science

More information about programs and faculty of the computer science department can be found here.

BS in Computer Science
Computer Science Major (BS)

The computer science major offers a 43-semester-hour course of study. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Special General Education Requirements

The mathematics courses listed below also fulfill the 3 hour mathematics requirement for general education. A minimum grade of C- must be obtained in all mathematics courses for graduation.

Major Requirements

Computer Science Core

CSIS 201 Introduction to Computer Science I (3)
CSIS 202 Introduction to Computer Science II (3)
CSIS 310 Data Structures and File Processing (3)
CSIS 360 Computer Architecture and Assembly Language (3)
CSIS 420 Structures of Programming Languages (3)
CSIS 430 Analysis of Algorithms (3)
CSIS 460 Operating Systems (3)
CSIS 471 Senior System Development I (1)
CSIS 472 Senior System Development II (3)
MATH 201 Calculus I (4)
MATH 260 Discrete Mathematics (3)
Students must choose 18 semester hours from the following:

CSIS 220 Digital Logic Design (4)
CSIS 300 Numerical Methods (3)
CSIS 314 Client-Server Systems (3)
CSIS 321 Software Engineering (3)
CSIS 330 Computer Graphics (3)
CSIS 340 Database Systems (3)
CSIS 350 Data Communications and Networks (3)
CSIS 370 Object-Oriented Programming (3)
CSIS 434 Parallel Computing (3)
CSIS 440 Artificial Intelligence (AI) (3)
CSIS 450 Network Administration (3)
CSIS 480 Principles of Compiler Design (3)

Computer and Information Science Minor (18 hours)

Minor Requirements
CSIS 201 Introduction to Computer Science I (3)
CSIS 202 Introduction to Computer Science II (3)
CSIS 310 Data Structures and File Processing (3)
Students must choose 9 additional semester hours of upper-division computer and information science (CSIS) coursework

BS in Information Systems
Information Systems Major (BS)

The information systems major offers a 49-semester-hour course of study . Students are required to obtain a minimum grade of C- in all courses taken for the major.

Special General Education Requirements
MATH 260 - Discrete Mathematics (3)
Students must choose one of the following courses:
ECON 201 Principles of Microeconomics (3)
ECON 202 Principles of Macroeconomics (3)

Major Requirements

Business Core (21 hours):
BUSN 110 - Introduction to Business (3)
ACCT271 - Principles of Financial Accounting (3)
ACCT272 - Principles of Managerial Accounting(3)
BUSN 240 - Statistics for Business and Economics (3)
BUSN 300 - Management (3)
BUSN 340 - Marketing (3)
BUSN 390 - Ethics in the Workplace (3)

Computer Science Core (24 hours):
CSIS 130 Web-Based Programming (3)
CSIS 201 Introduction to Computer Science I (3)
CSIS 202 Introduction to Computer Science II (3)
CSIS 314 Client-Server Systems (3)

CSIS 321 Software Engineering (3)
CSIS 340 Database Systems (3)
CSIS 350 Data Communications and Networks (3)
CSIS 450 Network Administration (3)

Senior Capstone Experience (4 hours)
CSIS 471 Senior System Development I (1)
CSIS 472 Senior System Development II (3)

Teacher Education Majors and Minors

The teacher education program at George Fox University is designed to prepare teachers for careers in public and private schools through a curriculum that builds on a broad foundation in Christian liberal arts education through specialization in elementary education with methods, clinical studies in teaching, and learning theory. Teacher education and licensure in Oregon operates under the approved program approach. Teaching licenses are issued to qualified applicants who have completed a teacher education program approved by the Oregon Teacher Standards and Practices Commission (TSPC), and who are able to satisfy other state requirements in effect at the time they complete graduation requirements and apply for a teaching license.

George Fox University is approved by the TSPC to offer initial licensure for early childhood and elementary education.

Secondary Education

The music education program is the only undergraduate program at George Fox University designed for the preparation of preK-12 teachers. Students who wish to teach content other than music at the secondary level complete a content major at the undergraduate level and prepare to enter a Master of Arts in Teaching (MAT) Program to meet the requirements for the Initial Teaching License. Education department faculty and undergraduate faculty in the content major are able to advise the students regarding movement toward admission to the MAT program. Students are encouraged to take EDUC 250 Teaching as a Profession (2) designed to introduce the role of the secondary teacher in the educational system and to introduce the George Fox MAT program and admission process. (See the MAT program catalog listing for admission information and course descriptions.)

Admission to Teacher Education

Students wishing to explore or prepare to enter a teaching career at the early childhood and elementary levels or in music education should consult with a teacher education advisor early in their freshman year.

Students make formal application for admission to the teacher education program during the introductory education class, EDUC 240 Perspectives in Education (2),generally taken fall or spring of the sophomore year by elementary and music education majors. Students enrolled in EDUC 240 Perspectives in Education are required to submit fingerprints and sign the PA-1 Character Question Form as outlined by TSPC.

Admission to the program is based upon attainment of a cumulative GPA of 2.75or better on all college-level courses, including transfer credits; passing scores on approved basic skills tests; acceptable recommendations; and exemplary social and moral behavior. In addition, an admission interview may also be conducted. Admission to the program is required before students may register for the professional education core courses. Continuation in teacher education is based on academic achievement and satisfactory evidence of characteristics needed for successful performance in the teaching profession. Students admitted to the programs are expected to maintain a cumulative GPA of 2.75 or better on all college-level classes, including transfer credits; attain grades of C- or better on all teaching major and professional education classes; and receive satisfactory evaluations of performance in field experiences. Admitted elementary and music education students are subject to the policies contained in the Teacher Education Guidelines purchased when they take EDUC 240 Perspectives in Education.

Transfer Students in Elementary and Music Education

Any student transferring to George Fox University must meet the same requirements for admission as those who have entered the university as incoming freshmen. Admission to the university does not guarantee admission to the teacher education program. This application must be directed to the teacher education department when the student is in

his/her first professional course, usually during the first semester at the university.

Residency Requirements

Elementary education majors must complete the following courses in residence at George Fox University:

EDUC 240 Perspectives in Education (2) *(fingerprints and Character Question Form are required)*
EDUC 313 Elementary Mathematics Methods (2)
EDUC 370 Curriculum and Instruction (3)
EDUC 375 Student Teaching I and Classroom Management (2)
EDUC 380 Social Studies Methods (2)
EDUC 383 Science Methods (2)
EDUC 401 Language Arts and Children's Literature (4)
EDUC 402 Literacy Methods (4)
EDUC 475 Student Teaching II (12)
EDUC 490 Senior Seminar (3)
MATH 211 Foundations of Elementary Mathematics I (3) and MATH 212 Foundations of Elementary Mathematics II (3) (exception: transfer of completed sequence of MATH 211, 212, 213)

Music education majors must complete the following courses in residence at George Fox University:

EDUC 240 Perspectives in Education (2) *(fingerprints and Character Question Form are required)*
EDUC 370 Curriculum and Instruction (3)
EDUC 375 Student Teaching I and Classroom Management (2)
EDUC 475 Student Teaching II (12)
EDUC 490 Senior Seminar (3)
MUSI 410 Elementary Music Methods (3)
MUSI 411 Middle Level and High School Music Methods (3)

A student transferring from a non accredited college will be granted conditional admission to the program until the student demonstrates ability by completing 12semester hours in the university and the student's professional education courses with a GPA of 2.75 or better.

Special Students: Teaching Credential Only

Students holding college degrees who enroll at George Fox University for the purpose of qualifying for an Oregon Initial Teaching License must be advised by the chair of undergraduate teacher education prior to enrollment in courses and meet requirements for admission to teacher education.

Planning the Program

Students should plan to finish their general education requirements and some of their lower-level teaching major requirements during their first two years of college. Professional courses in education and the advanced teaching major course requirements should be completed during the last two years. Some of these courses, listed under Transfer Students in Education, must be taken in residence, and professional education courses must be taken before student teaching. The Oregon Teacher Standards and Practices Commission requires that candidatesfor teaching licenses have passed required standardized tests. These are taken bystudents in conjunction with their professional courses. Students must complete the bachelor's degree and meet all state requirements before being recommended for teaching licensure.

Waiver of Requirements

Students enrolled in the teacher education program who believe they have had experience or education that has provided the competencies certain courses and experiences in the program are designed to develop may request a waiver of thatportion of the requirements. Waivers may be granted in writing by the chair of

undergraduate teacher education on the basis of satisfactory evidence submitted by the student through one or more of these means:

1. Examination and/or demonstration of competence. The student may demonstrate competence in written or verbal ways or in the execution of specific tasks.
2. Experience. The student may request that recent directly related experiences be accepted in satisfaction for course work or field experience. The student is required to submit documentation to support this request.
3. The student may request evaluation of other academic work completed satisfactorily to be granted equivalent credit.

Majors

• BS in Elementary Education
• BA in Music Education *(offered in conjunction with the performing arts department)*

The Teaching English to Speakers of Other Languages (TESOL) Minor (offered by the communication arts department) is also available. More information about the programs and faculty of the undergraduate education department can be found here.

BS in Elementary Education

Elementary Education Major (BS)

The elementary education major offers a 62-semester-hour course of study that is designed for the preparation of elementary school teachers with authorizations at the early childhood (age 3 years to grade 4) and elementary (grades 3-8) levels. Upon entering, students interested in majoring in elementary education should contact an elementary education advisor. There is a recommended sequence for courses in the major. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Special General Education Requirements

Elementary education majors shall complete the following 53-hour general education requirement (the following summaries note total hours and exceptions to the university general education policy. Refer to the general education section of this catalog for specific course options):

1. Senior Capstone: 3 hours.
2. Bible and Religion: 10 hours from stated options.
3. Communication: 6 hours from stated options.
4. Health and Human Performance: HHPA 120 Lifelong Fitness (2).
5. Humanities: 11-12 hours from stated options, including:
   - MUSI 120 The World of Music (2), ARTS 216 Art History Survey to 1450 (3), or ARTS 217 Art History Survey from 1450 (3)
   - At least two courses in history (including HIST 151 United States to 1865 [3] or HIST 152 United States from 1865 [3])
   - At least one course in literature.
6. Mathematics: This requirement is fulfilled within the major.
7. Natural Science: 6 hours from stated options.
8. Social Science: 6 hours from stated options, including PSYC 150 General Psychology (3).
9. Global and Cultural Understanding: 3 hours. This requirement is fulfilled by GEOG 200 Cultural Geography and Global Relationships (3).

Major Requirements

Elementary education admissions requirements, policies, and procedures are listed in the Teacher Education Majors and Minors section.

EDUC 240 Perspectives in Education (2)

EDUC 313 Elementary Mathematics Methods (2)
EDUC 321 Early Childhood Education (3)
EDUC 322 Early Childhood Methods (3)
EDUC 334 Health and Physical Education Methods (3)
EDUC 341 Learning Theory (2)
EDUC 342 Inclusion (2)
EDUC 370 Curriculum and Instruction (3)
EDUC 373 Fine Arts Methods (2)
EDUC 375 Student Teaching I and Classroom Management (2)
EDUC 380 Social Studies Methods (2)
EDUC 383 Science Methods (2)
EDUC 401 Language Arts and Children's Literature (4)
EDUC 402 Literacy Methods (4)
EDUC 475 Student Teaching II (12)
EDUC 490 Senior Seminar (3)
MATH 211 Foundations of Elementary Mathematics I (4)
MATH 212 Foundations of Elementary Mathematics II (4)
PSYC 311 Child Development (3)

Optional: Middle-Level Authorization (7 hours)
Students may add the middle-level authorization (grades 5-10) to the elementary/early childhood authorization if they meet the testing/course work requirements in a content area, take the required courses, and complete an additional student teaching at the middle level.
EDUC 352 Middle-Level Methods (3)
EDUC 376 Student Teaching I for Middle-Level Authorization (1)
Students must choose one of the following courses:
EDUC 351 Middle-Level Education (3)
PSYC 314 Adolescent Development (3)
Additional authorizations are available through the graduate department of Educational Foundations and Leadership.

Admission to Student Teaching
Acceptance into the teacher education program does not guarantee assignment for student teaching.

Application for admission to full-time student teaching is made by filling out required forms during the semester preceding the semester for which the assignment is requested. Admission to student teaching is based upon continued good standing; favorable recommendations; an attained cumulative GPA of 2.75 or better on all college-level courses, including transfer credits, and an average GPA of 2.75 or better in the teaching major; completion of the required teaching major and professional courses with no grade below C-; passing scores on appropriate basic skills and having taken content area examinations; successful completion of the student teaching interview; and a minimum of 15 semester hours completed in residence prior to student teaching.

Engineering Majors and Minors

Majors

• BS in Applied Science
• BS in Engineering

More information about programs and faculty of the engineering department can be found here.

BS in Applied Science

Applied Science Major (BS)

This major offers a 58-semester-hour course of study, enabling students to pursue engineering in a discipline other than those currently offered at George Fox University. This dual degree 3/2 program is offered for students interested in pursuing engineering in a discipline such as chemical,* environmental, or aerospace engineering. Students attend George Fox for three years, taking most of their general education, mathematics, science, and lower-division engineering courses. They may then qualify to transfer to any other engineering school where they spend two more years completing their engineering degree. Students completing this five-year program will receive two bachelor of science degrees: a degree in applied science from George Fox University after their fourth year, and a degree in engineering from the cooperating engineering school after their fifth year.

Special General Education Requirements

The chemistry and mathematics courses (listed below) also fulfill up to 9 hours of the sciences requirement for general education.

Major Requirements (58 hours)

CHEM 211 General Chemistry I (4)
CHEM 212 General Chemistry II (4)
ENGE 250 Electric Circuit Analysis (4)
ENGM 210 Statics and Dynamics (4)
ENGM 311 Engineering Thermodynamics (3)
ENGR 151 Engineering Principles I (2)
ENGR 152 Engineering Principles II (2)
ENGR 250 Principles of Materials Science (3)
MATH 201 Calculus I (4)
MATH 202 Calculus II (4)
MATH 301 Calculus III (3)
MATH 310 Differential Equations with Linear Algebra (4)
PHYS 211 General Physics with Calculus I (4)
PHYS 212 General Physics with Calculus II (4)
Students must choose at least 3 semester hours from the following:
ENGE 220 Digital Logic Design (4)
ENGE 311 Electronic Devices and Circuits (4)
ENGE 330 Electrical Signals and Networks (4)
ENGM 312 Applications of Engineering Thermodynamics (3)
ENGM 320 Mechanics of Materials (3)
ENGM 330 Fluid Mechanics (3)
Students must choose 6 semester hours from the following:
MATH 300 Numerical Methods (3)
MATH 320 Linear Algebra (3)

MATH 331 Probability (3)

Students must transfer 12 additional semester hours in engineering courses from the cooperating engineering school.

The remainder of the engineering curriculum will be taken in two years at the cooperating engineering school. For a complete list of required courses, consult the engineering advisor or the registrar. General education requirements are substantially different for 3/2 engineering students. Details are available from the engineering advisor or the registrar.

*It is strongly recommended that students interested in pursuing the 3/2 option in chemical engineering also enroll in CHEM 331 Organic Chemistry (4), CHEM 332 Organic Chemistry (4), CHEM 401 Physical Chemistry (4), and CHEM 402 Physical Chemistry (4) during their three years at George Fox University.

BS in Engineering
Engineering Major (BS)

Engineering is the application of mathematical and scientific knowledge to provide for the technological needs of society. This major offers a 90-semester-hour course of study with a concentration in civil, computer, electrical, or mechanical engineering. Design work is integrated throughout the curriculum, utilizing current methodologies and computer tools. The engineering major will prepare students for the engineering profession, graduate programs, and professional licensure. All engineering majors will be required to take the Fundamentals of Engineering exam prior to graduation.

Those students interested in pursuing an engineering degree in other areas, such as chemical or aerospace engineering, should see Applied Science.

Upon entering, students interested in majoring in engineering should contact an engineering advisor. There are specific general education requirements for engineering majors (see below). There is also a sequence for courses in the major.

Special General Education Requirements

Engineering majors shall complete the following general education requirements. The following summaries note total hours and exceptions to the university general education policy. Refer to the general education section of this catalog for specific course options.

1. Senior Capstone: 3 hours
2. Bible and Religion: 7 hours from stated options, including RELI 300 Christian Foundations (3)
3. Communication: 6 hours, including:
   WRIT 110 College Writing (3) (may be waived by verbal SAT of 670 or above) COMM 100 Introduction to Communication (3)
4. Health and Human Performance: HHPA 120 Lifelong Fitness (2)
5. Humanities: 8-9 hours from stated options, including PHIL 230 Ethics (3). Other courses must include a minimum of two courses from the general education humanities requirements for fine arts, history and literature. Each course must be in a different area of the humanities.
6. Mathematics: 4 hours:
   MATH 201 Calculus I (4)
7. Natural Science: 8 hours, including:
   CHEM 211 General Chemistry I (4)
   PHYS 211 General Physics with Calculus I (4)

8. Social Science: 6 hours from the following:
   Students must choose one of the following courses:
   ECON 201 Principles of Microeconomics (3)
   ECON 202 Principles of Macroeconomics (3)
   Students must also choose one of the following courses:
   PSCI 150 Introduction to Political Science (3)
   PSYC 150 General Psychology (3)
   SOCI 150 Principles of Sociology (3)
9. Global and Cultural Understanding: 3 hours from stated options. (Since Music in World Cultures is only 2 hours, it will not fulfill this requirement)

Major Requirements
The major requires course work to be completed in the following areas:

Engineering Core (30 hours)
ENGE 220 Digital Logic Design (4)
ENGE 250 Electrical Circuit Analysis (4)
ENGM 210 Statics and Dynamics (4)
ENGM 311 Engineering Thermodynamics (3)
ENGR 151 Engineering Principles I (3)
ENGR 152 Engineering Principles II (3)
ENGR 351 Servant Engineering I (1)
ENGR 352 Servant Engineering II (1)
ENGR 451 Servant Engineering III (1)
ENGR 452 Servant Engineering IV (1)
ENGR 481 Senior Design I (1)
ENGR 482 Senior Design II (3)
ENGR 490 Senior Seminar (1)

Mathematics and Natural Science (23 hours)
MATH 201 Calculus I (4)
MATH 202 Calculus II (4)
MATH 301 Calculus III (3)
MATH 310 Differential Equations with Linear Algebra (4)
PHYS 211 General Physics with Calculus I (4)
PHYS 212 General Physics with Calculus II (4)

Concentrations (37 hours)

Civil Engineering
ENGC 310 Environmental Engineering (3)
ENGC 320 Engineering Surveying (2)
ENGC 330 Structural Analysis and Design (4)
ENGC 340 Geotechnical Engineering (4)
ENGC 350 Water Resources Engineering (4)
ENGC 370 Transportation Engineering (2)
ENGC 430 Reinforced Concrete Design (3)
ENGC 450 Construction Management and Professional Practice (3)
ENGC 460 Design of Steel Structures (3)
ENGM 320 Mechanics of Materials (3)

ENGM 330 Fluid Mechanics (3)
ENGR 250 Principles of Materials Science (3)
Students must choose one of the following courses:
MATH 240 Statistical Procedures (3)
MATH 300 Numerical Methods (3)
MATH 331 Probability (3)

Computer Engineering
CSIS 202 Introduction to Computer Science II (3)
CSIS 310 Data Structures and File Processing (3)
CSIS 360 Computer Architecture and Assembly Language (3)
CSIS 460 Operating Systems (3)
ENGE 300 C Programming with Applications (3)
ENGE 311 Electronic Devices and Circuits (4)
ENGE 312 Applications of Electronic Devices (4)
ENGE 330 Electrical Signals and Networks (4)
ENGE 420 Microprocessors (4)
ENGE 480 Digital Signal Processing (3)
MATH 260 Discrete Mathematics (3)

Electrical Engineering
ENGE 300 C Programming with Applications (3)
ENGE 311 Electronic Devices and Circuits (4)
ENGE 312 Applications of Electronic Devices (4)
ENGE 330 Electrical Signals and Networks (4)
ENGE 360 Electromagnetic Fields and Waves (3)
ENGE 420 Microprocessors (4)
ENGE 480 Digital Signal Processing (3)
Students must choose 6 semester hours from the following courses:
ENGE 410 Digital System Design (3)
ENGE 430 Communication Systems (3)
ENGE 440 Electric Machines and Power Systems (3)
ENGE 460 Microwave Engineering and Applications (3)
Students must choose one of the following courses:
CSIS 202 Introduction to Computer Science II (3)
ENGR 250 Principles of Materials Science (3)
Students must choose one of the following courses:
MATH 240 Statistical Procedures (3)
MATH 300 Numerical Methods (3)
MATH 331 Probability (3)

Mechanical Engineering
ENGM 300 Computational Methods (2)
ENGM 312 Applications of Engineering Thermodynamics (3)
ENGM 320 Mechanics of Materials (3)
ENGM 330 Fluid Mechanics (3)
ENGM 350 Machine Dynamics and Vibrations (3)
ENGM 380 Heat Transfer (4)
ENGM 400 Mechanical Engineering Design (4)

Family and Consumer Sciences Majors and Minors

Majors

• BS in Family and Consumer Sciences

Minors

• Family and Consumer Sciences
• Fashion Merchandising/Interior Design
• Foods and Nutrition

More information about programs and faculty of the family and consumer sciences department can be found here.

BS in Family and Consumer Sciences
Family and Consumer Sciences Major (BS)

Major Requirements

Students may choose among three concentrations in family and consumer sciences. Descriptions and course requirements follow.

Concentrations

Family and Consumer Sciences Concentration (44 hours)

Family and consumer sciences are grounded in the sciences and humanities. At the core is an educational discipline designed to empower students to become professionals. Through education, research, cooperative programs, and public information, graduates work to improve the quality and standard of individuals and family life in an ever-changing world.

The family and consumer sciences major graduates with a bachelor of science degree. Graduates find employment in the traditional areas: cooperative extension, food research, nutrition research, food service management, child care, fashion design, textile design, residential and commercial design, kitchen and bath design, retail merchandising, dietetics, equipment sales, and journalism. They also find current, nontraditional careers in these and other fields: debt counseling, energy conservation management, event planning, advertising, equipment promotion, and public relations.

FCSC 120 Apparel Construction (3)
FCSC 211 Foods I (3)
FCSC 212 Foods II (3)
FCSC 220 Fashion and Society (2)
FCSC 230 Textiles Science (3)
FCSC 290 Meal Management (2)
FCSC 300 Nutrition (3)
FCSC 311 Child Development (3)
FCSC 323 Sociology of Families (3)
FCSC 330 Residential Architecture (2)
FCSC 350 Resource Management (2)
FCSC 351 Interior Design I (3)
FCSC 354 Kitchen and Bath Planning (3)
FCSC 360 Consumer Buying (3)
FCSC 490 Senior Seminar (3)
Students must choose one of the following courses:

FCSC 320 Fashion Merchandising (3)
FCSC 370 Pattern Drafting and Apparel Design (3)

Fashion Merchandising/Interior Design Concentration (44-45 hours)
The fields of fashion merchandising and interior design share a common base of knowledge grounded in the academic fields of family and consumer sciences and business. A background in apparel construction and design, merchandising of fashion, and market analysis prepares students for careers in fashion merchandising.

Residential architecture, kitchen and bath planning, and a variety of interior design classes prepare students for positions as interior designers. Career opportunities include visual merchandising, buying, entrepreneurship, apparel design, textile design, fashion analysis, interior design, housing and home planning, kitchen and bath design, equipment specialist, energy conservation management in the home, home furnishings, and business management and administration. A field experience (internship) in the Portland metropolitan area helps to provide valuable workplace experience for students before graduation.

BUSN 110 Introduction to Business (3)
FCSC 120 Apparel Construction (3)
FCSC 220 Fashion and Society (2)
FCSC 230 Textiles Science (3)
FCSC 320 Fashion Merchandising (3)
FCSC 330 Residential Architecture (2)
FCSC 350 Resource Management (2)
FCSC 351 Interior Design I (3)
FCSC 354 Kitchen and Bath Planning (3)
FCSC 360 Consumer Buying (3)
FCSC 370 Pattern Drafting and Apparel Design (3)
FCSC 475 Field Experience (3)
FCSC 490 Senior Seminar (3)
Students must choose one of the following courses:
BUSN 300 Management (3)
BUSN 340 Marketing (3)
Students must choose 2 of the following courses:
FCSC 352 Interior Design II (2)
FCSC 353 Interior CAD (3)
FCSC 378 Apparel CAD (3)
FCSC 460 Apparel Market Analysis (3)

Foods and Nutrition in Business Concentration (43 hours)
Foods and nutrition in business is a multidisciplinary concentration incorporating academic cores in consumer-oriented food science education, human nutrition, and business. Course work in food composition and preparation, analysis of consumer trends, and recognition of global food issues prepares students as food professionals, while course work in human nutrition and contemporary nutrition issues equips the student with the experience necessary to work in areas of consumer nutrition education. Business courses prepare students for careers in industries requiring the skills of food specialists, including new product development, test kitchens, recipe development, and food product sales and marketing, catering, event planning, and food service management.

Special General Education Requirements
CHEM 151 General, Organic, and Biological Chemistry I (4)
ECON 201 Principles of Microeconomics (3)

Concentration Requirements
ACCT 271 Principles of Financial Accounting (3)
BUSN 110 Introduction to Business (3)
BUSN 300 Management (3)
BUSN 340 Marketing (3)
FCSC 211 Foods I (3)
FCSC 212 Foods II (3)
FCSC 290 Meal Management (2)
FCSC 300 Nutrition (3)
FCSC 310 Food, Culture, and Society (3)
FCSC 344 Quantity Food Production and Management (3)
FCSC 350 Resource Management (2)
FCSC 360 Consumer Buying (3)
FCSC 430 Nutrition and the Life Cycle (3)
FCSC 475 Field Experience (3)
FCSC 490 Senior Seminar (3)

Cooperative 3-1 Degree Program Concentration with the Fashion Institute of Design and Merchandising
George Fox University offers a cooperative degree program with the Fashion Institute of Design and Merchandising (FIDM) in Los Angeles, California. This cooperative program allows students to attend George Fox University for three years during which the student completes all general education classes, elective classes, and a minimum of 14 specified hours in the fashion merchandising/interior design concentration.

Students electing to pursue this option apply in their junior year and attend FIDM their senior year to complete a specialized major. The broad spectrum of related courses at FIDM is more varied in content and specific in focus, which allows for the following specializations: interior design, merchandise marketing, and fashion design.

Graduates receive a bachelor of science degree in family and consumer sciences with a concentration in interior design, merchandise marketing, or fashion design from George Fox University and an associate of arts degree from FIDM.

Application to FIDM is solely the student's responsibility and is independent of acceptance to or enrollment at George Fox University. Students considering this option should seek advisement early in their academic careers in order to meet the requirements of both FIDM and GFU. Financial assistance is not available from George Fox University to students enrolling in FIDM. Grants and scholarships funded by George Fox University are not transferable to FIDM. Contact FIDM directly for information regarding admission requirements, tuition rates, and financial aid.

Fashion Merchandising/Interior Design Minor (18-20 hours)

Minor Requirements

FCSC 120 Apparel Construction (3)
FCSC 220 Fashion & Society (2)
FCSC 230 Textiles Science (3)
FCSC 351 Interior Design I (3)
Students must choose at least 3 of the following courses:
FCSC 320 Fashion Merchandising (3)
FCSC 330 Residential Architecture (2)
FCSC 352 Interior Design II (2)
FCSC 353 Interior CAD (3)
FCSC 354 Kitchen and Bath Planning (3)
FCSC 370 Pattern Drafting and Apparel Design (3)
FCSC 378 Apparel CAD (3)
FCSC 380 Evolution of World Dress (3)
FCSC 460 Apparel Market Analysis (3)

Family and Consumer Sciences Minor (20-23 hours)

Minor Requirements

FCSC 120 Apparel Construction (3)
FCSC 211 Foods I (3)
FCSC 212 Foods II (3)
FCSC 220 Fashion and Society (2)
FCSC 351 Interior Design I (3)
Students must choose at least 3 of the following courses:
FCSC 230 Textiles Science (3)
FCSC 290 Meal Management (2)
FCSC 300 Nutrition (3)
FCSC 310 Food, Culture, and Society (3)
FCSC 311 Child Development (3)
FCSC 320 Fashion Merchandising (3)
FCSC 323 Sociology of Families (3)
FCSC 330 Residential Architecture (2)
FCSC 344 Quantity Food Production and Management (3)
FCSC 350 Resource Management (2)
FCSC 352 Interior Design II (2)
FCSC 353 Interior CAD (3)
FCSC 354 Kitchen and Bath Planning (3)
FCSC 360 Consumer Buying (3)
FCSC 370 Pattern Drafting and Apparel Design (3)
FCSC 380 Evolution of World Dress (3)
FCSC 460 Apparel Market Analysis (3)
FCSC 490 Senior Seminar (3)

Foods and Nutrition Minor (20 hours)

Minor Requirements

FCSC 211 Foods I (3)
FCSC 212 Foods II (3)
FCSC 290 Meal Management (2)
FCSC 300 Nutrition (3)
FCSC 310 Food, Culture and Society (3)
FCSC 344 Quantity Food Production and Management (3)
FCSC 430 Nutrition During the Life Cycle (3)

Health and Human Performance Majors and Minors

Majors
• BS in Allied Health *(offered in conjunction with the biology department)*
• BS in Health and Human Performance
• BS in Health and Human Performance: Interdisciplinary

Minors
• Coaching
• Health
• Health Teaching
• Recreation

Bachelor of Science in Athletic Training
Bachelor of Science in Athletic Training (BSAT)

The Athletic Training Education Program (ATEP) is accredited by the Commission on Accreditation for Athletic Training Education (CAATE). The athletic training major offers a 43 credit hour course of study that is designed to prepare students for work in professional and collegiate sports, secondary & intermediate schools, sports medicine clinics, hospital ER and rehab clinics, occupational settings, fitness centers, and physicians' offices. Certified athletic trainers are medical professionals who are experts in injury prevention, assessment, treatment and rehabilitation, particularly in the orthopedic and musculoskeletal disciplines. Students who are accepted into the ATEP and complete all requirements will be prepared to sit for the athletic training Board of Certification exam.

Students are required to obtain a minimum grade of C- in all courses taken for the degree.

Admission to Athletic Training Program
Students wishing to prepare for a career in athletic training should consult with the athletic training program director within the first two weeks of the fall semester of their freshman year. Students must complete a minimum of 40 observational hours in the athletic training room to be eligible for acceptance in the Athletic Training Education Program.

Students make formal application for admission to the Athletic Training Education Program through the program director in the spring of their freshman year. Application must be made by March 15 of the semester prior to formal entry into the Athletic Training Education Program. A maximum of 10 qualified students will be accepted into the Athletic Training Education Program each year.

Admission to the program is based on a minimum cumulative GPA of 2.75 on all college-level courses including required prerequisites (PSYC 150, BIOL 331, BIOL 332, HHPE 390, and HLTH 233); two written recommendations; two written essays; a minimum predicted college GPA of 2.65 using the George Fox University admission and financial aid standards; meeting technical standards as described in the *Athletic Training Education Program Policies and Procedures Manual* (ATEP PPM); good standing with Student Life as described in the George Fox University *Student Handbook*; and submission of the formal application no later than March 15. Generally, any application submitted after March 15 will not be considered for admission the following school year. Admission to the program is required before applicants may gain experience as

athletic training students within the Athletic Training Education Program or declare athletic training as a major.

Transfer students must demonstrate the completion of a basic college-level first aid/CPR-PR course and the completion of at least 75 athletic training internship hours working under the guidance of a BOC certified athletic trainer. In addition, the supervising certified athletic trainer must write one of the letters of recommendation. Upon acceptance into the program, the student must follow the academic course plan as described in the ATEP PPM. Guidelines covering transfer credit are stated in the ATEP PPM. Transfer credit generally will not be granted for practicum (sequence courses: HHPE 374 through HHPE 379).

Generally, continuation in the Athletic Training Education Program is dependent upon maintaining a minimum 2.75 GPA within the athletic training major, maintaining a minimum overall GPA of 2.5, and receiving satisfactory evaluations within the clinical educational experience. In addition, continuation is based upon satisfactory evidence of good standing with student life and the physical health needed for successful performance in the athletic training environment. Admitted students are subject to the policies and procedures contained within the ATEP PPM. Students failing to meet expectations will normally be placed on probation for one semester. Continued failure to meet expectations during the probationary period will generally result in dismissal from the athletic training concentration. Athletic training students are required to obtain the hepatitis B immunization series in the first year and yearly tuberculosis screens in order to remain in the program.

Special General Education Requirements
BIOL 331 Human Anatomy and Physiology I (4)
BIOL 332 Human Anatomy and Physiology II (4)
PSYC 150 General Psychology (3)
All human performance majors are exempt from the general education human performance activity class requirement.

Major Requirements (43 hours)
HHPA 136 Weight Training (1)
HHPE 228 Conditioning/Body Mechanics and Aerobics (1)
HHPE 360 Organization and Administration of Health, Physical Education, and Athletic Training (2)
HHPE 364 Psychosocial Intervention and Referral in Athletic Training (3)
HHPE 366 General Medical Conditions in Athletic Training (2)
HHPE 374 Athletic Training Practicum I (1)
HHPE 375 Athletic Training Practicum II (1)
HHPE 376 Athletic Training Practicum III (1)
HHPE 377 Athletic Training Practicum IV (1)
HHPE 378 Athletic Training Practicum V (1)
HHPE 379 Athletic Training Practicum VI (1)
HHPE 384 Pharmacology in Athletic Training (1)
HHPE 390 Care and Prevention of Athletic Injuries (3)
HHPE 394 Kinesiology (3)
HHPE 400 Recognition of Athletic Injuries (3)
HHPE 413 Therapeutic Exercise (2)
HHPE 414 Therapeutic Modalities (2)
HHPE 430 Exercise Physiology (3)
HHPE 490 Senior Seminar (1)
HLTH 210 Drug Education (2)
HLTH 233 Responding to Emergencies (2)
HLTH 300 Nutrition (3)

PSYC 340 Statistical Procedures (3)

Coaching Minor (21 hours)

Minor Requirements

HHPE 300 Coaching Theory and Practice (2)
HHPE 360 Organization and Administration of Health, Physical Education, and Athletic Training (2)
HHPE 390 Care and Prevention of Athletic Injuries (3)
HHPE 430 Exercise Physiology (3)
HHPE 470 Motor Development and Motor-Skill Learning (3)
HLTH 230 First Aid and Safety (1)
PSYC 311 Child Development (3)
Students must choose 4 semester hours from the following:
HHPE 310 Coaching Basketball (2)
HHPE 320 Coaching Baseball/Softball (2)
HHPE 330 Coaching Soccer (2)
HHPE 340 Coaching Track (2)
HHPE 350 Coaching Volleyball (2)

Health and Human Performance: Interdisciplinary Major

Major Requirements

An interdisciplinary major may be elected through application and approval of the health and human performance faculty. The student must show how the proposed major meets reasonable academic and vocational objectives. The interdisciplinary major consists of 48 semester hours; 24 semester hours as specified below and 24 semester hours in another major field.

Health and Human Performance Block (24 hours)

EDUC 334 Health and Physical Education Methods (3)
HHPA 109 Ballroom Dancing (1)
HHPA 130 Aquatics (1) (a Red Cross Lifeguarding or Water Safety Instructor Certificate can be used to waive this requirement)
HHPE 228 Conditioning/Body Mechanics and Aerobics (1)
HHPE 370 Camp Programming and Counseling (3)
HHPE 380 Experiential Recreational Leadership (3)
HHPE 440 Camp Administration (2)
HLTH 230 First Aid and Safety (1)

An additional 9 hours, 5 of which must be 200-level-or-above, health education or human performance courses also are required.

BS in Health and Human Performance
Health and Human Performance Major (BS)

The health and human performance major offers a 37-44 credit hour course of study (depending on concentration selected) that is designed to prepare students in pre-physical education teaching and pre-health teaching for entrance into an MAT program; to prepare students in fitness management for sitting for the NSCA and ACSM certification exams and/or for employment in the fitness industry. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Special General Education Requirements

BIOL 331 Human Anatomy and Physiology I (4)
BIOL 332 Human Anatomy and Physiology II (4)
PSYC 150 General Psychology (3)
All human performance majors are exempt from the general education human performance activity class requirement.

Major Requirements

Students may choose among three concentrations in health and human performance. Descriptions and course requirements follow.

Concentrations

Fitness Management (41-42 hours)

HHPA 130 Aquatics (1) (a Red Cross Lifeguarding or Water Safety Instructor Certificate can be used to waive this requirement)
HHPE 200 History and Principles of Physical Education (2)
HHPE 223 Tumbling/Gymnastics (1)
HHPE 228 Conditioning/Body Mechanics and Aerobics (1)
HHPE 360 Organization and Administration of Health, Physical Education, and Athletic Training (2)
HHPE 380 Experiential Recreational Leadership (3)
HHPE 390 Care and Prevention of Athletic Injuries (3)
HHPE 394 Kinesiology (3)
HHPE 420 Exercise Prescription (3)
HHPE 430 Exercise Physiology (3)
HHPE 460 Physical Education for the Exceptional Student (3)
HHPE 470 Motor Development and Motor-Skill Learning (3)
HHPE 475 Fitness Management Field Experience (6)
HHPE 490 Senior Seminar (1)
HLTH 230 First Aid and Safety (1)
HLTH 300 Nutrition (3)
Students must choose one of the following courses:
HHPE 400 Recognition of Athletic Injuries (3)
HHPE 480 Tests and Measurements in Physical Education (2)
HLTH 240 Stress Management (3)

Health Preteaching (37 hours)

Students who wish to become health teachers are essentially entering a five-year program. They will take the health preteaching concentration within the Department of Health and Human Performance. Upon successful completion of this four-year concentration, students are directed to enter a one-year Master of Arts in Teaching Program.

Upon completion of the MAT program the student will have completed the master's degree and be certified to teach health.

EDUC 250 Teaching as a Profession (2)
EDUC 334 Health and Physical Education Methods (3)
HHPE 200 History and Principles of Physical Education (2)
HHPE 360 Organization and Administration of Health, Physical Education, and Athletic Training (2)
HHPE 394 Kinesiology (3)
HHPE 430 Exercise Physiology (3)
HHPE 460 Physical Education for the Exceptional Student (3)
HHPE 490 Senior Seminar (1)
HLTH 210 Drug Education (2)
HLTH 230 First Aid and Safety (1)
HLTH 240 Stress Management (3)
HLTH 300 Nutrition (3)
HLTH 320 Contemporary Health Issues (3)
HLTH 323 Sociology of Families (3)
PSYC 340 Statistical Procedures (3)

Physical Education Preteaching (43-44 hours)
Students who wish to become physical education teachers are essentially entering a five-year program. They will take the physical education preteaching concentration within the Department of Health and Human Performance. Upon successful completion of this four-year concentration students are directed to enter a one-year Master of Arts in Teaching Program. Upon completion of the MAT program the student will have completed the master's degree and be certified to teach physical education.

EDUC 250 Teaching as a Profession (2)
EDUC 334 Health and Physical Education Methods (3)
HHPA 109 Ballroom Dance (1)
HHPA 130 Aquatics (1) (a Red Cross Lifeguarding or Water Safety Instructor Certificate can be used to fulfill this requirement)
HHPE 200 History and Principles of Physical Education (2)
HHPE 221 Basketball/Golf (1)
HHPE 222 Field Sports (1)
HHPE 223 Tumbling/Gymnastics (1)
HHPE 226 Tennis/Volleyball (1)
HHPE 232 Recreational Games, Individual and Team (1)
HHPE 300 Coaching Theory and Practice (2)
HHPE 360 Organization and Administration of Health, Physical Education, and Athletic Training (2)
HHPE 394 Kinesiology (3)
HHPE 410 Teaching Physical Education (2)
HHPE 420 Exercise Prescription (3)
HHPE 430 Exercise Physiology (3)
HHPE 460 Physical Education for the Exceptional Student (3)
HHPE 470 Motor Development and Motor-Skill Learning (3)
HHPE 480 Tests and Measurements in Physical Education (2)
HHPE 490 Senior Seminar (1)
HLTH 210 Drug Education (2)
HLTH 230 First Aid and Safety (1)

Students must choose one of the following courses:
HHPE 310 Coaching Basketball (2)
HHPE 320 Coaching Baseball/Softball (2)
HHPE 330 Coaching Soccer (2)
HHPE 340 Coaching Track (2)
HHPE 350 Coaching Volleyball (2)
HHPE 390 Care and Prevention of Athletic Injuries (3)
HLTH 300 Nutrition (3)

Health Minor (18 hours)

Minor Requirements
HLTH 210 Drug Education (2)
HLTH 230 First Aid and Safety (1)
HLTH 240 Stress Management (3)
HLTH 300 Nutrition (3)
HLTH 320 Contemporary Health Issues (3)
HLTH 323 Sociology of Families (3)
HLTH 485 Special Topics (3)

Health Teaching Minor (21-23 hours)

Minor Requirements
HLTH 210 Drug Education (2)
HLTH 230 First Aid and Safety (1)
HLTH 240 Stress Management (3)
HLTH 280 Marriage and the Family (3)
HLTH 300 Nutrition (3)
HLTH 320 Contemporary Health Issues (3)
Students must choose 2 of the following courses:
BIOL 331 Human Anatomy and Physiology I (4)
BIOL 332 Human Anatomy and Physiology II (4)
HHPE 430 Exercise Physiology (3)
PSYC 311 Child Development (3)
SOCI/SWRK 450 Aging in Society (3)

Recreation Minor (19 hours)

Minor Requirements
HHPA 130/330 Aquatics (1)
HHPE 200 History and Principles of Physical Education (2)
HHPE 232 Recreational Games, Individual and Team (1)
HHPE 370 Camp Programming and Counseling (3)
HHPE 380 Experiential Recreational Leadership (3)
HHPE 440 Camp Administration (2)
HLTH 230 First Aid & Safety (1)
HLTH 240 Stress Management (3)
Students must choose one of the following options for 3 semester hours:
1. Choose 3 courses from the following:
HHPA 103/303 Backpacking (1)

HHPA 108/308 Canoeing (1)
HHPA 109/309 Ballroom Dance (1)
HHPA 122/322 Survival Techniques (1)
HHPA 126/326 Skiing/Snowboarding (1)
2. HHPE 485 Selected Topics (3)

History Majors and Minors

Majors

• BA in History

Minors

• History

More information about programs and faculty of the history department can be found here.

BA in History

History Major (BA)

The history major offers a 36-semester-hour course of study . Students are required to obtain a minimum grade of C- in all courses taken for the major.

Major Requirements (36 hours)

HIST 290 Introduction to Historical Studies (3)
HIST 490 History Seminar (3)
Students must choose one of the following courses:
HIST 110 Western Civilization to 1648 (3)
HIST 120 Western Civilization from 1648 (3)
Students must choose one of the following courses:
HIST 151 United States to 1865 (3)
HIST 152 United States from 1865 (3)

Students must choose 24 additional semester hours of history (HIST) courses, 21 of which must be upper-division.

History Minor (18 hours)

Students must choose one of the following courses:
HIST 110 Western Civilization to 1648 (3)
HIST 120 Western Civilization from 1648 (3)
Students must choose one of the following courses:
HIST 151 United States to 1865 (3)
HIST 152 United States from 1865 (3)
Students must choose 12 additional semester hours of history (HIST) courses

International Studies Majors and Minors

The following majors and minors are offered by the International Studies program at George Fox University.

Majors

• BA in International Studies

Minors

• International Studies

BA in International Studies

International Studies Major (BA)

International studies is an interdisciplinary major that offers a 38-40-semester-hour course of study, designed to prepare students for work in such fields as foreign missions, international commerce, economic development, and government service. It also provides excellent preparation for graduate study in international relations and diplomacy, missiology, and area studies. The major includes a strong international fieldwork emphasis. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Major Requirements

INTL 230 Introduction to International Relations (3)
INTL 310 Cultural Anthropology (3)
INTL 440 World Religions (3)
INTL 475 Culture-Oriented Fieldwork (8)
INTL 490 International Studies Senior Seminar (3)
The second year of a modern foreign language (6-8)
Students must take one of the following courses:
INTL 330 Introduction to the World Christian Movement (3)
RELI 360 Cross-Cultural Christian Outreach (3)
Students must choose one of the following courses:
INTL 460 International Trade and Finance (3)
ECON 360 Global Political Economy (3)
Students must choose 2 additional courses from the following:
COMM 300 Communication Theory and Research (3)
COMM 340 General and Cultural Linguistics (3)
COMM 350 Introduction to TESOL (Teaching English to Speakers of Other Languages) (3)
ECON 360 Global Political Economy (3)
ECON 460 International Trade and Finance (4)
FREN 495 Special Study (French) (1-4)
HIST 250 Latin America (3)
HIST 331 England to 1688 (3)
HIST 332 England Since 1688 (3)
HIST 340 History of the Middle East (3)
HIST 343 History of Southern Africa (3)
HIST 360 Modern Russia (3)
HIST 370 Modern China and Japan (3)
HIST 421 Europe from the Age of Enlightenment to 1890 (3)
HIST 422 Europe 1890-Present (3)
INTL 303 International Conflict and Peace (3)
LITR 236 Ancient World Literature (3)

LITR 237 World Literature, Medieval to Modern (3)
LITR 238 Contemporary World Literature (3)
RELI 360 Cross-Cultural Christian Outreach (3)
RELI 460 Issues in Contemporary Missions (3)
SOCI 380 Race, Ethnicity, and Class (3)
SPAN 495 Special Study (Spanish) (1-4)

Supporting Minors for International Studies
International studies is an interdisciplinary major designed for students with an interest in international vocations. Students taking this major as preparation for foreign missionary service or graduate studies in missions and intercultural concerns are encouraged to take a minor in the Department of Religious Studies (in biblical studies, Christian ministries, or religion). Students with interest in diplomacy or politics are encouraged to consider a minor in political science or peace studies. Those wishing to prepare for work in relief and development should consider a minor in business or economics.

International Studies Minor (18 hours)

Minor Requirements
INTL 490 Senior Seminar (3)
Students must choose 15 semester hours from the following:
INTL/SOCI 310 Cultural Anthropology (3)
INTL/RELI 440 World Religions (3)
INTL 475 Culture-Oriented Fieldwork (3-12)
RELI 360 Cross-Cultural Christian Outreach (3)
Other appropriate courses may be substituted with written approval from the International Studies Faculty Advisor.

Mathematics Majors and Minors

Majors

• BS in Mathematics

Minors

• Mathematics

More information about programs and faculty of the math department can be found here.

BS in Mathematics

Mathematics Major (BS)

The math major offers a 44-semester-hour course of study. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Major Requirements

CSIS 201 Introduction to Computer Science I (3)
MATH 201 Calculus I (4)
MATH 202 Calculus II (4)
MATH 290 Mathematical Logic (3)
MATH 301 Calculus III (3)
MATH 310 Differential Equations with Linear Algebra (4)
MATH 331 Probability (3)
MATH 490 Senior Seminar (2)
Students must choose 15 semester hours from the following:
MATH 260 Discrete Mathematics (3)
MATH 320 Linear Algebra (3)
MATH 332 Mathematical Statistics (3)
MATH 340 Number Theory (3)
MATH 350 Modern Geometry (3)
MATH 410 Algebraic Structures (3)
MATH 420 Real Analysis (3)
Students must choose one required supporting course:
CSIS 130 Web-based Programming (3)
CSIS 202 Introduction to Computer Science II (3)
CSIS/MATH 300 Numerical Methods (3)

Mathematics Minor (20 hours)

Minor Requirements

MATH 201 Calculus I (4)
MATH 202 Calculus II (4)
MATH 301 Calculus III (3)
Students must choose 9 semester hours of upper-division math (MATH) courses

Nursing Majors and Minors

The profession of nursing and nursing education is in a state of continual development. As the profession and health care have advanced, the need for nurses who are committed to a high level of intellectual inquiry is constantly increasing.

Nursing Admissions and Progression Criteria

To be considered for admission into the nursing major, the following criteria MUST be met:

1. Cumulative GPA of 2.8. Cumulative grade point average should include all transfer courses.
2. Satisfactory scores on Test of Essential Academic Skills (TEAS).
3. A two-page statement addressing each of the following:
   a. Factors that drew you to nursing
   b. Your conception of the role(s) of the professional nurse
   c. Your goals as a professional nurse
   d. A description of any cross-cultural experiences
   e. A description of any volunteer and/or work experiences
   f. Any educational, social, and personal barriers you have overcome
   g. How faith, values, beliefs have shaped and will impact your life and professional career
4. Two letters of reference. At least one must be from an individual not associated with George Fox University.
5. Health Certification Requirements. Students applying to the nursing program must complete and submit the following information along with completed application to the nursing major. If not completed, your application will not be considered for admission into the nursing major:
   a. Proof of current immunizations for polio, diphtheria, tetanus, second MMR, and hepatitis B vaccination. b. Titer for varicella (chicken pox) is required only if you do not know if and when you have had chicken pox. If you have had chicken pox, include year of disease on health record.
   c. Negative Mantoux or PPD (TB) test needs to be current through the school year. (Students must provide a copy of an updated test for their files each year.) If the student has had a positive Mantoux or PPD, he/she will need documentation of a negative chest X-ray to be submitted with the application. If chest X-ray is positive, the student needs to see his/her health care provider. Admission to the nursing program may occur only after the department receives verification of a negative sputum culture.
   d. Current CPR certification - American Heart Association (recommended) or Red Cross. All students are required to provide proof of current CPR certification with application.

Nursing Program Continuation

Continuation in the nursing program is dependent on satisfactory academic performance and the demonstration of the character and ethics needed for success in the profession. Students must:

1. Maintain a cumulative GPA of 2.8 or higher
2. Attain grades of C or better in all professional coursework
3. Achieve satisfactory evaluations of performance in clinical experiences

Nursing students are subject to the policies contained in the *Nursing Policies and Procedures Handbook*.

Majors

- BS in Nursing

BS in Nursing
Nursing Major (BS)

The nursing major offers a 69-semester-hour course of study that is designed to prepare students to function in increasingly complicated health care environments. Students are required to obtain a minimum grade of C in all courses taken for the major and to maintain a minimum major GPA of 2.75.

Special General Education Requirements

Nursing majors shall complete the following general education requirements (refer to the general education section of this catalog for specific course options):

1. Senior Capstone: GEED 490 Liberal Arts and Critical Issues (3)
2. Bible and Religion: at least 10 hours from stated options
3. Communications: COMM 100 Introduction to Communication (3)
4. Health and Human Performance: 3 hours from stated options
5. Humanities: 11-12 hours from stated options to include PHIL 230 Ethics (3)
6. Mathematics: 3 hours, MATH 180 College Algebra required unless waived by SAT score
7. Natural Sciences: BIOL 331 Human Anatomy and Physiology I (4) and BIOL 332 Human Anatomy and Physiology II (4)
8. Social Sciences: PSYC 150 General Psychology (3) and SOCI 150 Principles of Sociology (3)
9. Globalization: 6 hours from stated options to include SOCI 310 Cultural Anthropology (3)

Major Requirements

Nursing Core (45 hours)

NURS 200 Nursing Fundamentals (2)
NURS 203 Nursing Fundamentals Practicum (2)
NURS 210 Health Assessment (2)
NURS 300 Medical-Surgical Nursing I (3)
NURS 303 Medical-Surgical Nursing I Practicum (3)
NURS 320 Medical-Surgical Nursing II (3)
NURS 323 Medical-Surgical Nursing II Practicum (3)
NURS 330 Nursing Research (2)
NURS 340 Mental Health Nursing (2)
NURS 343 Mental Health Nursing Practicum (3)
NURS 350 Pharmacology (3)
NURS 360 Health Promotion (3)
NURS 400 Public Health Nursing (2)
NURS 403 Public Health Nursing Practicum (3)
NURS 410 Nursing Administration/Leadership (2)
NURS 413 Nursing Administration/Leadership Practicum (3)
NURS 420 Maternity Nursing (2)
NURS 423 Maternity Nursing Practicum (3)

Additional Required Courses (24 hours)

BIOL 320 Pathophysiology (3)
BIOL 370 Microbiology (4)
CHEM 151 General, Organic, and Biological Chemistry I (4)
CHEM 152 General, Organic, and Biological Chemistry II (4)
FCSC/HLTH 300 Nutrition (3)
MATH/PSYC/SOCI 240 Statistical Procedures (3)

Performing Arts Majors and Minors

Majors
• BA in Music
• Music: Interdisciplinary
• BA in Music Education *(offered in conjunction with the education department)*
• BA in Theatre
• Theatre: Interdisciplinary

Minors
• Church Music
• Music
• Music Theatre
• Theatre

BA in Music
Music Major (BA)

The music major offers a 44.5-64-semester-hour course of study. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Major Requirements
The music major consists of a music core required of all majors, plus one of four concentrations: composition, general, performance, or preteaching.

Music Core (32.5-33 hours)
MUSI 121 Theory I (3)
MUSI 122 Theory II (3)
MUSI 130 Music in World Cultures (2)
MUSI 131 Sight Singing and Ear Training I (1)
MUSI 132 Sight Singing and Ear Training II (1)
MUSI 180 Introduction to Music Technology (2)
MUSI 221 Theory III (4)
MUSI 222 Theory IV (4)
MUSI 311 Music History I (3)
MUSI 312 Music History II (3)
MUSI 320 Form and Analysis (2)
MUSI 400 Music and Christian Faith (2)
MUSI 490 Degree Recital/Project (1)
Students must choose one of the following courses:
MUSI 200 Basic Conducting (1.5)
MUSI 460 Advanced Conducting (2) (with permission)

Concentrations
Students must select one of the following concentrations:

Composition (22 hours)
MUSI 310 Counterpoint (2)
MUSI 430 Instrumentation and Orchestration (2)

Students must complete 8 semester hours as follows:
MUSI 225 Composition I (1) (two semesters)
MUSI 425 Composition II (1.5) (four semesters)
Students must complete 10 total semester hours from the following courses, with no fewer than four semesters in either area:
MUSA 105/305 (Applied Music) (.5-1)
MUSA Ensembles

General (15 hours)
Students must complete 10 semester hours from the following courses, with no fewer than four semesters in either area:
MUSA 105/305 (Applied Music) (.5-1)
MUSA Ensembles
Students must take 5 semester hours of music theory and literature (MUSI) courses, at least 3 of which must be upper division.

Performance (12 hours)
Students must take 8 semesters of the following courses:
MUSA 105/305 Applied Music (.5-1)
Students must take 8 semesters of the following courses:
MUSA 115-365 Large Ensemble (.5-1) (Chehalem Symphony Orchestra, Concert Choir, Master Chorus, or Symphonic Band is required in addition to other ensembles)

Preteaching (31 hours)
The preteaching concentration in music prepares the student to take the Oregon Praxis Examination in music as preparation for application to George Fox University's Master of Arts in Teaching Program or another similar program.
EDUC 250 Teaching as a Profession (2)
MUSI 270 Music Techniques Instrumental I (1)
MUSI 271 Music Techniques Instrumental II (1)
MUSI 272 Music Techniques Vocal (1)
MUSI 410 Elementary Music Methods (3)
MUSI 411 Middle Level and High School Music Methods (3)
Students must complete 10 semester hours from the following courses, with no fewer than four semesters in either area:
MUSA 105/305 (Applied Music) (.5-1)
MUSA Ensembles

Supportive Music Studies
Supportive music studies allow the student to choose an interest area with his or her advisor to pursue courses that supplement the student's interest in performance, composition, or sacred music. The *Fine Arts Handbook* at the music office serves as a guide for student and advisor.

Music majors must be enrolled in a major ensemble each semester. A solo recital and achievement of upper-division standing is required of all music majors. The recital is given in the senior year after the student has been granted upper-division standing and has passed a recital hearing given before the applied music faculty.

All music majors also are required to pass a piano proficiency examination administered at the end of the sophomore year. Students are required to register for MUSA 105/305 Applied Piano (1) or MUSI 135 Class Piano (1) until the proficiency has been met. Music majors will not be recommended for graduation until the proficiency has been

passed.

Individual instruction is offered in voice, piano, organ, strings, woodwinds, brass, percussion, drum set, bass guitar, and guitar. Music majors are required to enroll in applied music lessons each semester.

Each semester will include:
1. Thirteen 30-minute lessons.
2. A jury (on the Monday of each final exam week).
3. A minimum of 10 lessons (or roughly 75 percent of the lessons) must be attended by a student in order to receive a passing grade in applied music.
4. Incomplete grades will only be given for applied lessons with instructor approval. (Further instruction fees may apply.)

Students are charged a $260 instructional fee each semester per credit. Each credit reflects 13 thirty-minute lessons at a rate of $20 per lesson. Lessons will be made up if the teacher had to be absent or a student was unable to come to a lesson due to extended illness (with the appropriate nurse's or doctor's verification). It is the responsibility of the teacher or student to notify the other in advance if a lesson cannot be attended. Make-up lessons for any other reasons generally will not be given.

Through the second full week of lessons in each semester, students may discontinue study and be charged only for the number of scheduled lessons to date. Any of the lessons missed during the two-week period because of an extended illness will be made up. Any lesson missed because the teacher had to be absent will also be made up. Any lessons missed without a valid reason, as stated above, will not be made up but will still be charged to the student's account.

Students who discontinue lessons after the end of the second week may officially withdraw without receiving a grade providing the registrar's office is apprised before the official "last day to withdraw from class" printed in the current class schedule, BUT they will forfeit the instructional fee charged for the entire semester. The applied teacher will receive the total amount. One exception to this manner of dealing with charges is when students are incapacitated or have an official doctor's order to discontinue study (legitimate examples include a drummer who breaks an arm or a vocalist who develops vocal nodules and must be silent for a significant period of time). Any refund in these special cases will be given only for the remaining weeks of study after the student has met with the applied instructor.

All students enter the applied program at the 100- level. Before being advanced to upper-division study, the student must pass a faculty jury. All applied music students are expected to perform periodically in studio or public recital, but only students who have advanced to upper-division study levels will be permitted to present a half or full recital. These recitals may be given only by permission after the student has performed the recital repertoire in a faculty hearing.

Music: Interdisciplinary Major

Major Requirements

An interdisciplinary major may be elected through application and approval of the music faculty. The student must show how the proposed major meets reasonable academic and vocational objectives. The interdisciplinary major consists of 48 semester hours; 24 semester hours as specified by music faculty and 24 semester hours in another major field. Many creative options are possible. Common majors include music and religion, or music and Christian ministries.

BA in Music Education
Music Education Major (BA)

The music education major offers a 78.5-79-semester-hour course of study that is designed to prepare students for pre-K-12 music education. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Special General Education Requirements

Music education majors shall complete the following 51-hour general education requirement (the following summaries note total hours and exceptions to the university general education policy. Refer to the general education section of this catalog for specific course options):

1. Senior Capstone: 3 hours
2. Bible and Religion: 10 hours from stated options
3. Communication: 6 hours from stated options
4. Health and Human Performance: 3 hours from stated option
5. Humanities: 11 hours from stated options. No more than one course in music allowed for music majors, and all music majors are strongly advised to take visual arts and literature courses rather than music courses for their general education options.
6. Mathematics: 3 hours from stated options
7. Natural Science: 6 hours from stated options
8. Social Science: 6 hours from stated options, including PSYC 150 General Psychology (3)
9. Global and Cultural Understanding: 3 hours from stated options (since MUSI 130 Music in World Cultures is only 2 hours, it will not fulfill this requirement)

Major Requirements

Music education admissions requirements, policies, and procedures are listed in the teacher education section.

Music Core (32.5 hours)

MUSI 121 Theory I (3)
MUSI 122 Theory II (3)
MUSI 130 Music in World Cultures (2)
MUSI 131 Sight Singing and Ear Training I (1)
MUSI 132 Sight Singing and Ear Training II (1)
MUSI 180 Introduction to Music Technology (2)
MUSI 200 Basic Conducting (1.5)
MUSI 221 Theory III (4)
MUSI 222 Theory IV (4)
MUSI 311 Music History I (3)
MUSI 312 Music History II (3)
MUSI 320 Form and Analysis (2)
MUSI 400 Music and Christian Faith (2)
MUSI 490 Degree Recital/Project (1)

Applied Music, Ensembles and Proficiencies (7.5 hours)
Students must complete 4 total credit hours of MUSA 105/305 Applied Music (.5-1) for six consecutive semesters

Students must choose 3.5 credit hours of MUSA Ensemble coursework for seven consecutive semesters
Students must pass the departmental keyboard proficiency requirements and successfully complete a junior recital

Professional Courses (36 hours)
EDUC 240 Perspectives in Education (2)
EDUC 341 Learning Theory (2)
EDUC 370 Curriculum and Instruction (3)
EDUC 375 Student Teaching I and Classroom Management (2)
EDUC 475 Student Teaching II (12)
EDUC 490 Senior Seminar (3)
MUSI 190 Foundation of Music Education (1)
MUSI 410 Elementary Music Methods (3)
MUSI 411 Middle Level and High School Music Methods (3)
MUSI 460 Advanced Conducting (2)
PSYC 310 Lifespan Human Development (3)

Tracks (2.5-3 hours)

Instrumental Track
MUSI 270 Music Techniques Instrumental I (1)
MUSI 271 Music Techniques Instrumental II (1)
Students must choose .5 credit hour of private voice lessons or 1 credit hour of class Voice

Choral Track
MUSI 272 Music Techniques Vocal (1)
MUSI 273 Instrumental Music Techniques for Choral Conductors (1)
Students must choose 1 credit hour of class guitar or vocal diction

BA in Theatre
Theatre Major (BA)

The theatre major offers a 45-semester-hour course of study that is designed to prepare students for entry into the competitive field of theatre as actors, directors, designers, technicians, and managers. The major offers a concentration in acting/directing and a concentration in design/technology. Each concentration features a balance between theory and performance courses and requires students to apply their knowledge through laboratory classes in conjunction with the university theatre's main stage season. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Major Requirements

Theory Core (18 hours)
LITR 379 Shakespeare (3)
THEA 130 Stagecraft (3)
THEA 240 Understanding Drama (3)
THEA 340 Theatre as Ministry (3)
THEA 420 Theatre Management (3)
THEA 440 Theatre History (3)

Electives (6 hours)
Students must choose 6 semester hours from the following courses:
CMCO 320 Dramatic Scriptwriting (3)
CMCO 430 Producing and Directing Video (3)
COMM 230 Mass Media and Popular Culture (3)
THEA 160/360 Improvisational Theatre Workshop (2)
THEA 220 Oral Interpretation of Literature (3)
THEA 285/485 Selected Topics (3)
THEA/MUSI 350 Music Theatre Performance (3)

Practicum (6 hours)
Students must choose 6 semester hours from the following courses:
THEA 165/365 George Fox University Players: Drama Touring Troupe (1)
THEA 125/325 A Theatre Laboratory — Acting (1)
THEA 125/325 B Theatre Laboratory — Directing (1)
THEA 125/325 C Theatre Laboratory — Technical (1)
THEA 125/325 D Theatre Laboratory — Design (1)
THEA 275/475 Field Experience (1-6)
THEA 495 Special Study (1-3)

Concentrations (15 hours)
Students must select one of the following concentrations:

Acting/Directing
THEA 200 Acting II — Stage Voice and Movement (3)
THEA 300 Acting III — Contemporary Scene Study (3)
THEA 370 Directing for Theatre (3)
THEA 400 Acting IV — Acting Shakespeare (3)
Students must choose one of the following courses:
THEA 330 Stage Lighting and Sound (3)
THEA 430 Scenic Design (3)

Design/Technology
THEA 125/325 D Theatre Laboratory — Design (3)
THEA 330 Stage Lighting and Sound (3)
THEA 430 Scenic Design (3)
Students must choose one of the following courses:
FCSC 120 Apparel Construction (3)
FCSC 380 Evolution of World Dress (3)
Students must choose one of the following courses:
THEA 300 Acting III — Contemporary Scene Study (3)
THEA 370 Directing for Theatre (3)
THEA 400 Acting IV — Acting Shakespeare (3)

Theatre: Interdisciplinary Major

Major Requirements
An interdisciplinary major may be elected through application and approval of the theatre faculty. The student must show how the proposed major meets reasonable academic and vocational objectives. The interdisciplinary major consists of 48 semester hours; 24 semester hours as specified by theatre faculty and 24 semester hours in another major field. Creative options include theatre and music, theatre and Christian ministries, theatre and literature, theatre and communication media and broadcast, and theatre and business administration (marketing/management).

Music Minor (18.5 hours)

Minor Requirements

MUSI 121 Theory I (3)
MUSI 122 Theory II (3)
MUSI 131 Sight Singing and Ear Training I (1)
MUSI 132 Sight Singing and Ear Training II (1)
MUSI 200 Basic Conducting (1.5)
MUSI 311 Music History I (3)
MUSI 312 Music History II (3)
MUSA 105/305 Applied Music (2)
Students must choose one semester hour of ensemble (MUSA 115 or above) Coursework

Church Music Minor (19 hours)

Minor Requirements

MUSA 105/305VC Applied Voice (2)
MUSI 121 Theory I (3)
MUSI 131 Sight Singing and Ear Training (1)
MUSI 200 Basic Conducting (1.5)
MUSI 272 Music Techniques Vocal (1)
MUSI 340 Church Music (History and Administration) (3)
MUSI 400 Music and Christian Faith (2)
Students must choose 1.5 semester hours from the following courses:
MUSA 125C/325C Concert Choir (.5-1)
MUSA 135A/335A Chamber Singers (.5)
MUSA 135B/335B Chorale (.5)
MUSA 135J/335J Vocal Jazz Ensemble (.5)
Students must choose 2 semester hours from the following courses:
MUSA 105PN Applied Piano (1-2)
MUSA 105OR Applied Organ (1-2)
MUSI 135 Class Piano (1)
Students must choose 2 semester hours from the following options based on their specialty:
1. *Keyboard specialists*
MUSI 380 Keyboard Improvisation and Service Playing (2)
2. *Non-keyboard specialists*
additional semester hours of music theory and literature (MUSI) coursework

Music Theatre Minor (21 hours)

Minor Requirements

Music Theory (4 hours)

MUSI 121 Theory I (3)
MUSI 131 Sight Singing and Ear Training (1)

Applied Music (3 hours)

Students must choose at least one of the following courses:
MUSA 125/325 C - Concert Choir (.5-1)
MUSA 135/335 B - Chorale (.5)
Students must choose at least one of the following courses:
MUSA 105 VC - Applied Voice (1-2)

MUSI 125 - Voice Class (1)

Dance (1 hour)
Students must choose one of the following courses:
HHPA 107/307 Dance Performance (1)
HHPA 109/309 Ballroom Dance (1)

Theatre (10 hours)
THEA 100 Acting I - Fundamentals (3)
THEA 200 Acting II - Stage Voice and Movement (3)
THEA / MUSI 350 Music Theatre Performance (3)
Students must choose at least one of the following courses:
THEA 125/325 A Theatre Laboratory — Acting (1)
THEA 125/325 B Theatre Laboratory — Directing (1)
THEA 125/325 C Theatre Laboratory — Technical (1)
THEA 125/325 D Theatre Laboratory — Design (1)

Electives (3 hours)
Students must choose 3 semester hours from remaining theatre (THEA) or music theory and literature (MUSI) coursework

Theatre Minor (19 hours)

Minor Requirements

Theatre Minor Core (13 hours)
THEA 100 Acting 1 — Fundamentals (3)
THEA 130 Stagecraft (3)
THEA 340 Theatre as Ministry (3)
THEA 440 Theatre History (3)
Students must choose 1 of the following:
THEA 125/325 A Theatre Laboratory — Acting (1)
THEA 125/325 B Theatre Laboratory — Directing (1)
THEA 125/325 C Theatre Laboratory — Technical (1)
THEA 125/325 D Theatre Laboratory — Design (1)

Electives (6 hours)
Students must choose 6 semester hours from the following courses:
LITR 240 Understanding Drama (3)
THEA 125/325 A Theatre Laboratory — Acting (1)
THEA 125/325 B Theatre Laboratory — Directing (1)
THEA 125/325 C Theatre Laboratory — Technical (1)
THEA 125/325 D Theatre Laboratory — Design (1)
THEA 160/360 Improvisational Theatre Workshop (2)
THEA 165/365 George Fox University Players: Drama Touring Troupe (1)
THEA 200 Acting II — Stage Voice and Movement (3)
THEA 220 Oral Interpretation of Literature (3)
THEA 275 Field Experience (1-6)
THEA 285 Selected Topics (3)
THEA 300 Acting III — Contemporary Scene Study (3)
THEA 330 Stage Lighting and Sound (3)

THEA 350 Music Theatre Performance (3)
THEA 370 Directing for Theatre (3)
THEA 400 Acting IV — Shakespeare (3)
THEA 420 Theatre Management (3)
THEA 430 Scenic Design (3)
THEA 475 Field Experience (1-6)
THEA 485 Selected Topics (3)
THEA 495 Special Study (1-3)

Political Science Majors and Minors

Majors

• BA in Political Science

Minors

• Peace Studies

• Political Science

In addition to the major and minors listed above, the political science department also administers the program leading to the Certificate in Conflict Management. More information about programs and faculty of the political science department can be found here.

BA in Political Science

Political Science Major (BA)

The political science major offers a 36-semester-hour course of study. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Major Requirements

A minimum of 24 semester hours must be upper-division courses

PSCI 150 Introduction to Political Science (3)

PSCI 275/475 Field Experience (3-6) (Only 3 hours of credit may be earned from one internship. Up to 6 hours of major requirements may be earned from internship credit, but of these only 3 hours may be upper-division credit.)

PSCI 320 Constitutional Law: Issues of National Power (3)

PSCI 490 Senior Seminar (3)

Students must choose one of the following courses:

PSCI 230 Introduction to International Relations (3)

PSCI 303 International Conflict and Peace (3)

Students must choose at least 5 of the following courses:

PSCI 190 American Government (3)

PSCI 220/420 War and Conscience in the United States (3)

PSCI 230 Introduction to International Relations (3)

PSCI 240 State and Local Government (3)

PSCI 243 Introduction to Public Administration (3)

PSCI 253 Introduction to Comparative Government (3)

PSCI 260 Introduction to Law (3)

PSCI 280 Introduction to Political Philosophy (3)

PSCI 285/485 Selected Topics (3)

PSCI 300 American Political Theory (3)

PSCI 303 International Conflict and Peace (3)

PSCI 310 Conflict Resolution (3)

PSCI 353 Constitutional Law: Civil Rights and Liberties (3)

PSCI 380 American Foreign Policy (3)

PSCI 390 Peace Research (1-3)

PSCI 410 Community Mediation (3)

PSCI 430 Women and Politics in American History (3)

PSCI 440 Christianity and Politics in America (3)

PSCI 450 Campaigns and Elections (3)

Electives (3-8 hours)
(additional electives as needed to bring major total to 36 semester hours)
COMM 380 Leadership Communication
ECON 340 Public Economics (3)
ECON 360 Global Political Economy (3)
LEAD 491 Leadership Seminar I (1)

Peace Studies Minor (21 hours)

The Peace Studies minor explores the moral, strategic, and practical aspects of peacemaking at every level of human activity from the interpersonal to the international. Students study the origins of conflicts, dynamics that sustain them, opportunities they offer, destruction they cause, and various approaches available for peacemaking. Courses draw on a wide variety of disciplines -- political science, history, economics, communications, and religion. For more information, students should see the Director of the Center for Peace and Justice.

Minor Requirements
PSCI/SOCI 303 International Conflict and Peace (3)
PSCI 390 Peace Research (3)
PSCI 475 Field Experience (3)
Students must choose 4 of the following courses:
BIBL 390 Biblical Basis for Peacemaking (3)
COMM 310 Conflict Resolution (3)
ECON 360 Global Political Economy (3)
HIST 220/420 War and Conscience in the United States (3)
PSCI 230 Introduction to International Relations (3)
PSCI 410 Community Mediation (3)

Political Science Minor (18 hours)

Minor Requirements
PSCI 150 Introduction to Political Science (3)
PSCI 320 Constitutional Law: Issues of National Power (3)
Students must choose 12 semester hours of political science (PSCI) coursework (6 of these hours must be originally listed as PSCI courses, and no more than 3 hours of internship credit may count toward minor)

Certificate in Conflict Management (15-16 hours)

The Center for Peace and Justice coordinates a special course of study in conflict management designed to give students concentrated preparation for practical peacemaking in their work, church, community, and family. Students will study the theory of communication and conflict resolution, be introduced to relevant skills, and equip themselves to apply this learning in a variety of action settings.

Certificate Requirements
COMM/PSCI 310 Conflict Resolution (3)
PSCI 410 Community Mediation (3)
Students must choose one of the following courses:
COMM 200 Persuasive Communication (3)
COMM 210 Interpersonal Communication (3)
Students must choose one of the following courses:
BUSN 480 Organizational Behavior (4)
SOCI 300 Group Dynamics (3)
CHMN/PSYC 381 Counseling (3)

Students must choose 3 semester hours of field experience in a conflict resolution or mediation program or agency tailored to the individual student's needs (taken after PSCI 410 or concurrently with it)

These credits may be applied also toward general education, major, or minor requirements. Successful students will receive a certificate of completion upon graduation.

Psychology Majors and Minors

Majors

• BS in Cognitive Science
• BA in Psychology
• BS in Psychology

Minors

• Psychology

More information about programs and faculty of the psychology department can be found here.

BS Cognitive Science
Cognitive Science Major (BS)

This major offers a 43-semester-hour course of study. The major is an interdisciplinary study of the mind that draws on several disciplines to provide a broad foundation from which to understand and study mental processes. Students are provided flexibility within the major to explore that aspect of the mind that most interests them (e.g., psychological, physiological, philosophical, computational). Students are required to obtain a minimum grade of C- in all courses taken for the major.

Special General Education Requirements

BIOL 331 Human Anatomy and Physiology I (4)
PHIL 210 Introduction to Philosophy (3)
PSYC 150 General Psychology (3)
SOCI 310 Cultural Anthropology (3)
Students must choose one of the following courses:
MATH 201 Calculus I (4)
MATH 260 Discrete Mathematics (3)

Major Requirements (43 hours)

PSYC 320 Neuroscience (3)
PSYC 450 History and Systems of Psychology (3)
PSYC 490 Senior Seminar (1)

Methods Courses (15 hours)

CSIS 201 Introduction to Computer Science I (3)
CSIS 202 Introduction to Computer Science II (3)
PSYC 340 Statistical Procedures (3)
PSYC 391 Research Methods (3)
PSYC 392 Advanced Research Methods (3)

Survey Courses (21 hours)

Students must choose 7 of the following courses:
COMM 340 General and Cultural Linguistics (3)
CSIS 440 Artificial Intelligence (AI) (3)
LITR 360 Values Through Story and Myth (3)
MATH 290 Mathematical Logic (3)
PHIL 340 Logic (3)
PSYC 350 Social Psychology (3)
PSYC 360 Learning (3)
PSYC 370 Cognition (3)

PSYC 410 Sensation and Perception (3)
Students have the option to choose an additional 3-6 semester hours of research or special study in field of emphasis

BA in Psychology
Psychology Major (BA)

This major offers a 37-semester-hour course of study, designed to acquaint students with the field of psychology and the implications of its principles for human behavior. The bachelor of arts degree has a greater emphasis on applied learning than does the bachelor of science. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Special General Education Requirements
PSYC 150 General Psychology (3)
SOCI 150 Principles of Sociology (3)

Major Requirements
PSYC 340 Statistical Procedures (3)
PSYC 391 Research Methods (3)
PSYC 450 History and Systems of Psychology (3)
PSYC 490 Senior Seminar (1)
Students must choose one course from the following:
PSYC 330 Personality Theories (3)
PSYC 350 Social Psychology (3)
PSYC 353 Culture and Psychology (3)
PSYC 440 Psychology of Religion (3)
Students must choose one course from the following:
PSYC 311 Child Development (3)
PSYC 312 Adult Development (3)
PSYC 314 Adolescent Development (3)
Students must choose one course from the following:
PSYC 381 Counseling (3)
PSYC 400 Psychological Testing (3)
PSYC 420 Abnormal Psychology (3)
PSYC 430 Drugs and Alcohol (3)
Students must choose 2 courses from the following:
PSYC 320 Neuroscience (3)
PSYC 360 Learning (3)
PSYC 370 Cognition (3)
PSYC 410 Sensation and Perception (3)
Students must choose one course from the following:
PSYC 475 Field Experience (3)
PSYC 495 Special Study (3)
Students must choose 9 semester hours of psychology (PSYC) coursework

BS in Psychology
Psychology Major (BS)

This major offers a 37-semester-hour course of study, designed to acquaint students with the field of psychology and the implications of its principles for human behavior. The bachelor of science degree has a greater emphasis on scientific methodology than does the bachelor of arts. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Special General Education Requirements
PSYC 150 General Psychology (3)
SOCI 150 Principles of Sociology (3)

Major Requirements
PSYC 340 Statistical Procedures (3)
PSYC 391 Research Methods (3)
PSYC 392 Advanced Research Methods (3)
PSYC 450 History and Systems of Psychology (3)
PSYC 490 Senior Seminar (1)
Students must choose one course from the following:
PSYC 330 Personality Theories (3)
PSYC 350 Social Psychology (3)
PSYC 353 Culture and Psychology (3)
PSYC 440 Psychology of Religion (3)
Students must choose one course from the following:
PSYC 311 Child Development (3)
PSYC 312 Adult Development (3)
PSYC 314 Adolescent Development (3)
Students must choose one course from the following:
PSYC 381 Counseling (3)
PSYC 400 Psychological Testing (3)
PSYC 420 Abnormal Psychology (3)
Students must choose 2 courses from the following:
PSYC 320 Neuroscience (3)
PSYC 360 Learning (3)
PSYC 370 Cognition (3)
PSYC 410 Sensation and Perception (3)
Students must choose 9 semester hours of psychology (PSYC) coursework

Psychology Minor (18-19 hours)

Minor Requirements
PSYC 150 General Psychology (3)
PSYC 311 Child Development (3)
PSYC 450 History and Systems of Psychology (3)

Concentration
Students must choose one concentration:

Experimental Psychology
Students must choose 3 of the following courses:

PSYC 320 Neuroscience (3)
PSYC 350 Social Psychology (3)
PSYC 360 Learning (3)
PSYC 370 Cognition (3)
PSYC 391 Research Methods (3)
PSYC 400 Psychological Testing (3)
PSYC 420 Abnormal Psychology (3)

Counseling/Clinical Psychology
Students must choose 3 of the following courses:
PSYC 330 Personality Theories (3)
PSYC 350 Social Psychology (3)
PSYC 381 Counseling (3)
PSYC 382 Advanced Counseling (3)
PSYC 400 Psychological Testing (3)
PSYC 420 Abnormal Psychology (3)
PSYC 430 Drugs and Alcohol (3)

Educational Psychology (Education Majors)
EDUC 341 Learning Theory (2)
EDUC 342 Inclusion (2)
Students must choose 2 of the following courses:
PSYC 314 Adolescent Development (3)
PSYC 330 Personality Theories (3)
PSYC 370 Cognition (3)
PSYC 381 Counseling (3)
PSYC 400 Psychological Testing (3)

Educational Psychology (Non-Education Majors)
Students must choose 3 of the following courses:
PSYC 312 Adult Development (3)
PSYC 314 Adolescent Development (3)
PSYC 330 Personality Theories (3)
PSYC 350 Social Psychology (3)
PSYC 360 Learning (3)
PSYC 370 Cognition (3)
PSYC 381 Counseling (3)
PSYC 400 Psychological Testing (3)

Religious Studies Majors and Minors

Majors

- BA in Biblical Studies
- Biblical Studies: Interdisciplinary
- BA in Christian Ministries
- Christian Ministries: Interdisciplinary
- BA in Philosophy
- BA in Religion
- Religion: Interdisciplinary

Minors

- Biblical Studies
- Camping: Administrative
- Camping: Programming
- Christian Ministries: Church Recreation
- Christian Ministries: Educational Ministry
- Christian Ministries: Missions
- Christian Ministries: Youth Ministries
- Philosophy
- Quaker Studies
- Religion

BA in Biblical Studies
Biblical Studies Major (BA)

The biblical studies major offers a 39-semester-hour course of study that is designed to provide a good foundation for some church ministries, work with youth and parachurch organizations, teaching Bible in Christian school settings, and for further graduate work in Bible and theology. The student who majors in Bible will acquire an in-depth working knowledge of Scripture, its backgrounds, and methods of interpretation. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Major Requirements

18 semester hours must be from upper-division courses (including at least 6 semester hours at the 400 level). Courses must be distributed as follows:

Biblical Studies (18 hours)

Students must choose 18 semester hours in biblical studies (BIBL) courses:

- BIBL 100 Bible Survey (4) may not be applied to the major
- One semester of BIBL 101 Literature of the Old Testament (3) or BIBL 102 Literature of the New Testament (3) may be applied as biblical studies credit
- Greek may be applied as biblical studies credit
- No more than 2 semester hours in BIBL 495 Special Study may count toward major Requirements

Christian Ministries (6 hours)

Students must choose one of the following courses:

CHMN 360 Perspectives in Christian Education (3)

CHMN 390 Theological Foundations of Christian Ministry (3)

Students must choose 3 additional semester hours of Christian ministries (CHMN) Coursework

Religion (9 hours)
RELI 380 Christian Beliefs (3)
Students must choose one of the following courses:
RELI 401 Christianity in History I (3)
RELI 402 Christianity in History II (3)
Students must choose 3 additional semester hours of religious studies (RELI) Coursework

Philosophy (6 hours)
Students must choose 6 semester hours of philosophy (PHIL) coursework

Biblical Studies: Interdisciplinary Major

An interdisciplinary major may be elected through application and approval of the religious studies faculty. The student must show how the proposed major meets reasonable academic and vocational objectives. The interdisciplinary major consists of 48 semester hours; 24 semester hours as specified below and 24 semester hours in another major field.

Major Requirements

Biblical Studies (12 hours)
Students must choose 12 semester hours of biblical studies (BIBL) coursework

Christian Ministries (3 hours)
Students must choose one of the following courses:
CHMN 360 Perspectives in Christian Education (3)
CHMN 390 Theological Foundations of Christian Ministry (3)

Religion (6 hours)
RELI 380 Christian Beliefs (3)
Students must choose 3 additional semester hours of religious studies (RELI) Coursework

Philosophy (3 hours)
Students must choose 3 semester hours of philosophy (PHIL) coursework

BA in Christian Ministries
Christian Ministries Major (BA)

The Christian ministries major offers a 41-42-semester-hour course of study that is designed to prepare students to enter Christian service in local churches and parachurch organizations, providing biblical and theological preparation and an excellent base for graduate studies in a wide variety of ministry fields. Typical careers are positions as pastors, missionaries, youth pastors, and Christian education directors. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Major Requirements
A minimum of 18 credit hours shall be from upper-division courses. A limit of 4 credit hours of field experience can apply to the major.

Required Core Courses (25 hours)
RELI 380 Christian Beliefs (3)
CHMN 130 Christian Discipling (4)

Students must take one of the following courses:
RELI 401 Christianity in History I (3)
RELI 402 Christianity in History II (3)
Students must take 2 of the following courses:
CHMN 390 Theological Foundations of Christian Ministry (3)
CHMN 360 Perspectives in Christian Education (3)
CHMN 420 Speaking as Ministry (3)
Students must choose 6 semester hours in biblical studies (BIBL) coursework
Students must choose 3 semester hours in philosophy (PHIL) coursework

Concentrations (16-17 hours)

Church Recreation
CHMN 320 Relational Bible Teaching (2)
CHMN 370 Camp Programming and Counseling (3)
CHMN 440 Camp Administration (2)
CHMN 475 Field Experience (2)
HHPE 380 Experiential Recreational Leadership (3)
HHPA 120 Lifelong Fitness (2)
Students must choose one of the following courses:
RELI 340 Christian Classics (3)
RELI 350 Spiritual Formation (3)
RELI 490 Contemporary Religious Life (3)

Educational Ministry (Shared Praxis)
CHMN 391 Shared Praxis I: Introduction to Educational Ministry (4)
CHMN 392 Shared Praxis II: Christian Theology Related to Ministry (4)
CHMN 491 Shared Praxis III: Methods and Skills in Ministry (4)
CHMN 492 Shared Praxis IV: Supervised Field Experience (4)

Missions
RELI 330 Introduction to the World Christian Movement (3)
RELI 360 Cross-Cultural Christian Outreach (3)
RELI 440 World Religions (3)
RELI 460 Issues in Contemporary Missions (3)
CHMN 475 Field Experience (2)
Students must choose 2 semester hours of Christian ministries (CHMN) coursework

Youth Ministry
CHMN 330 Foundations of Youth Ministry (4)
CHMN 381 Counseling (3)
PSYC 311 Child Development (3)
PSYC 314 Adolescent Development (3)
Students must choose one of the following courses:
CHMN 370 Camp Programming and Counseling (3)
HHPE 380 Experiential Recreational Leadership (3)

Christian Ministries: Interdisciplinary Major

An interdisciplinary major may be elected through application and approval of the religious studies faculty. The student must show how the proposed major meets reasonable academic and vocational objectives. The interdisciplinary major consists of 48 semester hours; 24 semester hours as specified below and 24 semester hours in another major field.

Major Requirements
For the Christian ministries block, the student will select one of four concentrations: church recreation, educational ministry (Shared Praxis), missions, or youth ministry.

Biblical Studies (6 hours)
Students must choose 6 semester hours in biblical studies (BIBL) coursework

Christian Ministries (12 hours)
CHMN 130 Christian Discipling (4)
CHMN 360 Perspectives in Christian Education (3)
Students must choose 6 additional semester hours of Christian ministries (CHMN) Coursework

Religion (3 hours)
RELI 380 Christian Beliefs (3)

Philosophy (3 hours)
Students must choose 3 semester hours of philosophy (PHIL) coursework
Also offered is an interdisciplinary block in the area of camping ministries utilizing the requirements of a camping minor. Details are available from the Department of Religious Studies.

BA in Philosophy
Philosophy Major (BA)

The philosophy major offers a 36-semester-hour course of study that is designed to prepare students to think well and communicate clearly. A classic liberal arts major, philosophy prepares students for a wide variety of options in graduate school, including history, law, law enforcement, literature, philosophy, and theology. Skills in critical thinking and clear communication also prepare students well for careers in business and industry. Most important, philosophical skills are central to the active life of the mind. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Major Requirements
A minimum of 24 semester hours must be upper-division courses

Philosophy Core (18 hours)
PHIL 210 Introduction to Philosophy (3)
PHIL 230 Ethics (3)
PHIL 380 History of Philosophy Survey (3)
PHIL 382 History of Philosophy Seminar (3)
PHIL 415 Contemporary Philosophers and Problems (3)
Students must choose one of the following courses:
PHIL 340 Logic (3)
COMM 324 Argumentation and Critical Thinking (3)

Electives (12 hours)
Students must choose 12 semester hours from the following courses:
COMM 324 Argumentation and Critical Thinking (3)
LITR 360 Values Through Story and Myth (3)
PHIL 260 Social Theory (3)
PHIL 270 Philosophy of the Arts (3)
PHIL 310 Christian Apologetics (3)
PHIL 330 Philosophy of Religion (3)
PHIL 415 Contemporary Philosophers and Problems (3)
PHIL 285/485 Selected Topics* (2-3)
PHIL 495 Special Study (1-3)

Specialization Tracks (6 hours)
Students must choose one of the specializations below and take the 6 semester hours associated with it.

Comparative Theology
RELI 380 Christian Beliefs (3)
RELI 440 World Religions (3)

Literature
LITR 350 Literary Criticism (3)
Students must choose a 3-hour upper-division literature (LITR) course

Peace Studies
BIBL 390 Biblical Basis for Peacemaking (3)
Students must choose one of the following courses:
PSCI 303 International Conflict and Peace (3)
PSCI 310 Conflict Resolution (3)

History
HIST 490 History Seminar (3)
Students must choose a 3-hour upper-division history (HIST) course
Students may, with department approval, create other specialization tracks on the models of the above options. The track must include a methodology course and an upper-division content course.

*Note: recent PHIL 285/485 topics have included apologetics, postmodern philosophy and Christian thought, philosophy of science, philosophy of E. Levinas, and philosophy of sex, singleness, and marriage.

BA in Religion
Religion Major (BA)

The religion major offers a 39-semester-hour course of study that is designed to prepare students for graduate work in theology, other Christian studies (especially for those hoping to teach at the college or seminary level), and ministry (seminary). It is also excellent preparation for those desiring to enter some form of ministry. Learning to think critically and to develop the life of the Spirit is fostered by the religion major. Religion serves as a foundational major in a number of areas. It helps students build a solid foundation from several perspectives: Christian history, theology, biblical studies, and practical ministry. It

also explores the larger context of world religions. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Major Requirements
A minimum of 18 semester hours must be from upper-division courses and a limit of 3 semester hours of field experience can apply to the major. Required hours include the following:

Biblical Studies (9 hours)
Students must choose 9 semester hours in biblical studies (BIBL) coursework
- BIBL 100 Bible Survey (4) may not be applied to the major requirements
- One semester of BIBL 101 Literature of the Old Testament (3) or BIBL 102 Literature of the New Testament (3) may be applied as biblical studies credit

Christian Ministries (6 hours)
Students must choose one of the following courses:
CHMN 360 Perspectives in Christian Education (3)
CHMN 390 Theological Foundations of Christian Ministry (3)
Students must choose 3 additional semester hours of Christian ministries (CHMN) Coursework

Religion (18 hours)
RELI 380 Christian Beliefs (3)
RELI 401 Christianity in History I (3)
RELI 402 Christianity in History II (3)
RELI 440 World Religions (3)
Students must choose 6 additional semester hours of religious studies (RELI) Coursework

Philosophy Courses (6 hours)
Students must choose 6 semester hours of philosophy (PHIL) coursework

Religion: Interdisciplinary Major

An interdisciplinary major may be elected through application and approval of the religious studies faculty. The student must show how the proposed major meets reasonable academic and vocational objectives. The interdisciplinary major consists of 48 semester hours; 24 semester hours as specified below and 24 semester hours in another major field.

Major Requirements

Religion (10 hours)
RELI 380 Christian Beliefs (3)
Students must choose 7 additional semester hours in religious studies (RELI) Coursework

Christian Ministries (3 hours)
Students must choose one of the following courses:
CHMN 360 Perspectives in Christian Education (3)
CHMN 390 Theological Foundations of Christian Ministry (3)

Biblical Studies (8 hours)

Students must choose 8 semester hours in biblical studies (BIBL) coursework

Philosophy (3 hours)
Students must choose 3 semester hours in philosophy (PHIL) coursework

Biblical Studies Minor (18 hours)

Minor Requirements
A minimum of 12 semester hours must be upper division
Students must choose 12 semester hours in biblical studies (BIBL) coursework (200 level and above)
Students must choose 3 semester hours in Christian ministries (CHMN) coursework
Students must choose 3 semester hours in religious studies (RELI) or philosophy (PHIL) coursework

Camping: Administrative Minor (19 hours)

Minor Requirements
ACCT 271 Principles of Financial Accounting (3)
BUSN 110 Introduction to Business (3)
BUSN 300 Management (3)
CHMN 370 Camp Programming and Counseling (3)
CHMN 440 Camp Administration (2)
CHMN 475 Field Experience (2)
Students must choose one of the following courses:
CHMN 230 The Christian and the Outdoors (3)
SOCI 300 Group Dynamics (3)

Camping: Programming Minor (19 hours)

Minor Requirements
CHMN 230 The Christian and the Outdoors (3)
CHMN 370 Camp Programming and Counseling (3)
CHMN 440 Camp Administration (2)
CHMN 475 Field Experience (2)
Students must choose 4 HHP camp-related activity courses (e.g., HHPA 103, 108, etc.) (4)
Students must choose 5 semester hours from the following:
CHMN 320 Relational Bible Teaching (2)
CHMN 330 Foundations of Youth Ministry (4)
HHPE 380 Experiential Recreational Leadership (3)

Christian Ministries: Church Recreation Minor (19-20 hours)

Minor Requirements (12 of which must be upper division)
CHMN 370 Camp Programming and Counseling (3)
CHMN 440 Camp Administration (2)
CHMN 475 Field Experience (2)
HHPE 380 Experiential Recreational Leadership (3)
Students must choose 3 semester hours from biblical studies (BIBL) courses (200 level or above)
Students must choose one of the following courses:
CHMN 130 Christian Discipling (4)
CHMN 360 Perspectives in Christian Education (3)
CHMN 390 Theological Foundations of Christian Ministry (3)

Students must choose one of the following courses:
RELI 340 Christian Classics (3)
RELI 350 Spiritual Formation (3)
RELI 490 Contemporary Religious Life (3)

Christian Ministries: Educational Ministry Minor (18-20 hours)

Minor Requirements
CHMN 391 Shared Praxis I: Introduction to Educational Ministry (4)
CHMN 392 Shared Praxis II: Christian Theology Related to Ministry(4)
CHMN 491 Shared Praxis III: Methods and Skills in Ministry (4)
CHMN 492 Shared Praxis IV: Supervised Field Experience (4)
Students must choose one of the following courses:
CHMN 130 Christian Discipling (4)
CHMN 360 Perspectives in Christian Education (3)
CHMN 390 Theological Foundations of Christian Ministry (3)
Students must choose 3-4 semester hours of biblical studies (BIBL) coursework

Christian Ministries: Missions Minor (18-20 hours)

Minor Requirements (12 of which must be upper-division)
RELI 330 Introduction to the World Christian Movement (3)
RELI 360 Cross-Cultural Christian Outreach (3)
RELI 440 World Religions (3)
RELI 460 Issues in Contemporary Missions (3)
Students must choose one of the following courses:
CHMN 130 Christian Discipling (4)
CHMN 360 Perspectives in Christian Education (3)
CHMN 390 Theological Foundations of Christian Ministry (3)
Students must choose 3-4 semester hours of biblical studies (BIBL) coursework

Christian Ministries: Youth Ministry Minor (19-20 hours)

Minor Requirements (12 of which must be upper division)
CHMN 330 Foundations of Youth Ministry (4)
CHMN 381 Counseling (3)
PSYC 314 Adolescent Development (3)
Students must choose one of the following courses:
CHMN 370 Camp Programming and Counseling (3)
HHPE 380 Experiential Recreational Leadership (3)
Students must choose one of the following courses:
CHMN 130 Christian Discipling (4)
CHMN 360 Perspectives in Christian Education (3)
CHMN 390 Theological Foundations of Christian Ministry (3)
Students must choose 3 semester hours of biblical studies (BIBL) coursework (200 level or above)

Philosophy Minor (18 hours)

Minor Requirements

PHIL 210 Introduction to Philosophy (3)
PHIL 230 Ethics (3)
PHIL 380 History of Philosophy Survey (3)
Students must choose 9 semester hours from the following:
LITR 360 Values Through Story and Myth (3)
PHIL 260 Social Theory (3)
PHIL 270 Philosophy of the Arts (3)
PHIL 280 Introduction to Political Philosophy (3)
PHIL 300 American Political Theory (3)
PHIL 310 Christian Apologetics (3)
PHIL 330 Philosophy of Religion (3)
PHIL 340 Logic (3)
PHIL 382 History of Philosophy Seminar (3)
PHIL 415 Contemporary Philosophers and Problems (3)
Or any other philosophy (PHIL) course (with faculty approval)

Quaker Studies Minor (19 hours)

Minor Requirements

RELI 260 History and Doctrine of Friends (3)
RELI 350 Spiritual Formation (3)
RELI 385 Quaker Seminar (1)
RELI/HIST 402 Christianity in History II (3)
Students must choose one of the following courses:
BIBL 390 Biblical Basis for Peacemaking (3)
HIST 220/420 War and Conscience in the United States (3)
PSCI 310 Conflict Resolution (3)
Students must choose 2 of the following courses:
PHIL 330 Philosophy of Religion (3)
PSYC 440 Psychology of Religion (3)
RELI/SOCI 230/430 Sociology of Religion (3)
RELI/HIST 401 Christianity in History I (3)
3 additional RELI 385 Quaker Seminars (1 hour each)

Religion Minor (20-21 hours)

Minor Requirements

A minimum of 14 semester hours must be upper-division coursework
RELI 330 Introduction to the World Christian Movement (3)
RELI 380 Christian Beliefs (3)
RELI 385 Quaker Seminar (1)
RELI 440 World Religions (3)
Students must choose 2 of the following courses:
RELI 340 Christian Classics (3)
RELI 350 Spiritual Formation (3)
RELI 490 Contemporary Religious Life (3)

Students must choose 3-4 semester hours of 200-400-level biblical studies (BIBL) coursework
Students must choose one of the following courses:
RELI 260 History and Doctrine of Friends (3)
RELI 401 Christianity in History I (3)
RELI 402 Christianity in History II (3)

Sociology/Social Work Majors and Minors

Sociology is the study of complex and changing social relationships. The sociology program prepares students to:
1. Analyze human relationships from a sociological perspective
2. Develop the theoretical, technical, and statistical skills necessary for asking and answering sociological questions
3. Enhance awareness of relationships between personal events and the structure of societies.

Majors
- BA in Sociology

Minors
- Social Welfare
- Sociology

BA in Sociology
Sociology Major (BA)

The sociology major offers a 39-semester-hour course of study that is designed to prepare students for admission into graduate programs, careers in higher education or research, and/or entry-level practice positions within a variety of private and public settings where knowledge of human relationships and methodological skills is helpful. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Major Requirements
SOCI 150 Principles of Sociology (3)
SOCI 340 Statistical Procedures (3)
SOCI 373 Social Theory (3)
SOCI 390 Research Methods (3)
SOCI 480 Senior Research Project (3)
Students must choose 6 semester hours of sociology (SOCI) electives

Concentrations (18 hours)
Students must select one of the following concentrations:

Community and Families
Students must choose six of the following classes:
SOCI 320 Men and Women in Society (3)
SOCI 323 Sociology of Families (3)
SOCI 326 Sociology of Sexuality (3)
SOCI 360 Crime & Deviance (3)
SOCI 363 Social Stratification (3)
SOCI 380 Race and Ethnicity (3)
SOCI 475 Internship (3)

Social Justice and Inequality
Students must choose six of the following classes:
SOCI 303 International Conflict and Peace (3)
SOCI 320 Men & Women in Society (3)
SOCI 360 Crime and Deviance (3)
SOCI 363 Social Stratification (3)

SOCI 366 Social Change (3)
SOCI 380 Race and Ethnicity (3)
SOCI 410 Juvenile Delinquency (3)
SOCI 475 Internship (3)

Global and Cultural Studies
Students must choose six of the following classes:
SOCI 303 International Conflict and Peace (3)
SOCI 310 Cultural Anthropology (3)
SOCI 320 Men and Women in Society (3)
SOCI 323 Sociology of Families (3)
SOCI 326 Sociology of Sexuality (3)
SOCI 363 Social Stratification (3)
SOCI 366 Social Change (3)
SOCI 380 Race and Ethnicity (3)
SOCI 475 Internship (3)

Sociology Minor (21 hours)

SOCI 150 Principles of Sociology (3)
SOCI 363 Social Stratification (3)
SOCI 373 Social Theory (3)
Students must choose one of the following courses:
SOCI 320 Man and Women in Society (3)
SOCI 366 Social Change (3)
SOCI 380 Race and Ethnicity (3)
Students must choose 9 semester hours from the following courses:
SOCI 310 Cultural Anthropology (3)
SOCI 320 Man and Women in Society (3)
SOCI 323 Sociology of Families (3)
SOCI 326 Sociology of Sexuality (3)
SOCI 340 Statistical Procedures (3)
SOCI 360 Crime and Deviance (3)
SOCI 380 Race and Ethnicity(3)
SOCI 390 Research Methods (3)
SOCI 410 Juvenile Delinquency (3)
SOCI 475 Field Experience (3-6)

Social Welfare Minor (18 hours)

SWRK 180 Introduction to Social Welfare (3)
SWRK 290 Diversity Issues in Social Work (3)
SWRK 331 Human Behavior in the Social Environment I (3)
SWRK 332 Human Behavior in the Social Environment II (3)
SWRK 460 Social Policy (3)
Students must choose 3 semester hours from the following courses:
SOCI 360 Crime and Deviance (3)
SOCI 380 Race and Ethnicity (3)
SOCI 410 Juvenile Delinquency (3)
SWRK 400 Social Work with Children (3)
SWRK 485 Selected Topics (1-3)

Bachelor of Social Work (BSW)

The bachelor of social work degree offers a 126-semester-hour course of study, 48 hours of which are prescribed social work course work that is designed to prepare students for professional social work practice with diverse populations in a variety of settings. This includes work with individuals and couples (micro level); families and small groups (mezzo level); and agencies, institutions, community, and church organizations (macro level). There is an emphasis on generalist practice that values the uniqueness, dignity, and needs of all people. Generalist practice is oriented toward analyzing and addressing problems with micro, mezzo, and macro skills and perspectives.

The program courses are designed to include academic social work and field experience/practicum requirements within a liberal arts context. This enables the student to link social research with social work practice. The program prepares students to work in a variety of social work and social welfare settings, as well as to seek admission into graduate programs. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Admission to Social Work Degree (BSW)

Students interested in pursuing a degree in social work should consult with a social work advisor as soon as possible. All students interested in social work as a degree must make formal application to the program. Each applicant shall:

1. Live in compliance with the university expectations and responsibilities (found in the *Undergraduate Student Handbook*).
2. Have an overall GPA of at least 2.0 prior to filing an application to the program.
3. Complete the following pre-entry courses with a GPA of at least 2.70 and a minimum of a C grade in each:
   PSYC 150 General Psychology (3)
   SOCI 150 Principles of Sociology (3)
   SWRK 180 Introduction to Social Welfare (3)
4. Complete the program application process (which includes completion of a written application, recommendations, and interview) on or before Jan. 30 of the student's sophomore year. Transfer students should see a social work advisor prior to registration.
5. Receive written acceptance into the program from the program admission committee.
6. File a Declaration of Major form with the university's registrar's office.

Special General Education Requirements

BIOL 100 Foundations of Biology (3)
PSYC 150 General Psychology (3)
SOCI 150 Principles of Sociology (3)

Recommended General Education Courses

ECON 202 Principles of Macroeconomics (3)
SOCI 310 Cultural Anthropology (3)

Major Requirements

SWRK 180 Introduction to Social Welfare (3)
SWRK 290 Diversity Issues in Social Work (3)
SWRK 331 Human Behavior in the Social Environment I (3)
SWRK 332 Human Behavior in the Social Environment II (3)
SWRK 340 Statistical Procedures (3)
SWRK 380 Social Work Research Methods (3)
SWRK 391 Social Work Practice I (3)

SWRK 392 Social Work Practice II (3)
SWRK 393 Social Work Practice III (3)
SWRK 460 Social Policy (3)
SWRK 475 Field Experience/Practicum I (3)
SWRK 476 Field Experience/Practicum II (3)
SWRK 477 Field Experience/Practicum III (3)
SWRK 490 Senior Seminar (3)
Students must choose 6 semester hours from the following courses:
BIBL 390 Biblical Basis for Peacemaking (3)
INTL 230 Introduction to International Relations (3)
INTL 475 Culture-Oriented Fieldwork (3)
PSYC 330 Personality Theories (3)
PSYC 350 Social Psychology (3)
PSYC 420 Abnormal Psychology (3)
PSYC 430 Addictions (3)
RELI 360 Cross-Cultural Christian Outreach (3)
RELI 440 World Religions (3)
SOCI 230/430 Sociology of Religion (3)
SOCI 303 International Conflict and Peace (3)
SOCI 320 Men and Women in Society (3)
SOCI 323 Sociology of Families (3)
SOCI 360 Crime and Deviance (3)
SOCI 363 Social Stratification (3)
SOCI 366 Social Change (3)
SOCI 380 Race and Ethnicity (3)
SOCI 410 Juvenile Delinquency (3)
SWRK 400 Social Work with Children (3)
SWRK 485 Selected Topics (1-3)
Students must choose one of the following courses:
PSCI 150 Introduction to Political Science (3)
PSCI 190 American Government (3)
PSCI 240 State and Local Government (3)

Visual Arts Majors and Minors

Majors

• BA in Art
• Art: Interdisciplinary

Minors

• Art

More information about programs and faculty of the visual arts department can be found here.

Art: Interdisciplinary Major

An interdisciplinary major may be elected through application and approval of the art faculty. The student must show how the proposed major meets reasonable academic and vocational objectives. The interdisciplinary major consists of 48 semester hours, with a minimum of 24 semester hours in art. Creative options include art and communications, art and theatre, and art and business.

Major Requirements

ARTS 101 Basic Design I (3)
ARTS 111 Drawing I (3)
Students must choose one of the following courses:
ARTS 216 Art History Survey to 1450 (3)
ARTS 217 Art History Survey from 1450 (3)
Students must also choose one of the following options:
1. Submit artworks for juried GFU Art Student Exhibition
2. Present a portfolio for review and petition for an alternative exhibition venue

BA in Art
Art Major (BA)

The art major offers a 45-48-semester-hour course of study . Students are required to obtain a minimum grade of C- in all courses taken for the major.

Major Requirements

Art Core (18 hours)

ARTS 101 Basic Design I (3)
ARTS 102 Basic Design II (3)
ARTS 111 Drawing I (3)
ARTS 112 Drawing II (3)
ARTS 460 Art and Christ (3)
ARTS 490 Senior Thesis (3)

Concentrations

Students must choose one of the following two concentrations:

Graphic Design (30 hours)
Required

ARTS 250 Introduction to Graphic Design (3)
ARTS 350 Graphic Design 2: Typography (3)
ARTS 360 Illustration (3)

ARTS 382 Twentieth-Century Art (3)
ARTS 383 History of Visual Communications (3)
ARTS 450 Graphic Design 3: Design Applications (3)

Electives

Students must choose 12 semester hours from the following courses:
ARTS 201 Beginning Painting (3)
ARTS 230 Beginning Photography (3)
ARTS 231 Beginning Printmaking (3)
ARTS 301 Intermediate Painting (3)
ARTS 330 Intermediate Photography (3)
ARTS 451 Packaging, Public Graphics, and Signage (3)
BUSN 110 Introduction to Business (3)
BUSN 340 Marketing (3)
BUSN 420 Marketing Communication and Strategy (4)
BUSN 450 Marketing Research and Decision Making (4)
CMCO 250 Digital Multimedia Production (3)
WRIT 310 Desktop Publishing and Design (3)

Studio Arts (27 hours)

Required

ARTS 216 Art History Survey to 1450 (3)
ARTS 217 Art History Survey from 1450 (3)
Students must choose one of the following courses:
ARTS 355 Selected Topics in Western Art (3)
ARTS 365 Selected Topics in Non-Western Art (3)
Students must choose one of the following courses:
ARTS 382 Twentieth-Century Art (3)
ARTS 384 Contemporary Art Forms (3)

Electives

Students must choose 15 semester hours from the following courses (must include courses from three separate studio disciplines):
ARTS 201 Beginning Painting (3)
ARTS 221 Beginning Sculpture (3)
ARTS 230 Beginning Photography (3)
ARTS 231 Beginning Printmaking (3)
ARTS 240 Beginning Mixed Media (3)
ARTS 241 Beginning Ceramics (3)
ARTS 245/345/455 Selected Studio Media (3)
ARTS 250 Introduction to Graphic Design (3)
ARTS 285 Selected Topics (1-3)
ARTS 295 Special Study (1-3)
ARTS 301 Intermediate Painting (3)
ARTS 321 Intermediate Sculpture (3)
ARTS 330 Intermediate Photography (3)
ARTS 331 Intermediate Printmaking (3)
ARTS 340 Intermediate Mixed Media (3)
ARTS 341 Intermediate Ceramics (3)
ARTS 350 Graphic Design 2: Typography (3)
ARTS 401 Advanced Painting (3)
ARTS 421 Advanced Sculpture (3)

ARTS 430 Advanced Photography (3)
ARTS 431 Advanced Printmaking (3)
ARTS 440 Advanced Mixed Media (3)
ARTS 441 Advanced Ceramics (3)
ARTS 495 Special Study (1-3)
PHIL 270 Philosophy of the Arts (3)
THEA 125/325C Theatre Laboratory (1-3)
Students must also choose one of the following options:
1. Submit artworks for juried GFU Art Student Exhibition
2. Present a portfolio for review and petition for an alternative exhibition venue.

Art Minor (21 hours)

Minor Requirements

ARTS 101 Basic Design I* (3)
ARTS 111 Drawing I (3)
ARTS 216 Art History Survey to 1450 (3)
ARTS 217 Art History Survey from 1450 (3)
Students must choose 9 additional hours of studio electives
Students must also choose one of the following options:
1. Submit artworks for juried GFU Art Student Exhibition
2. Present a portfolio for review and petition for an alternative exhibition venue *Minors focusing on 3-D studio courses may petition to substitute ARTS 102 Basic Design II for ARTS 101 Basic Design I.

Writing/Literature Majors and Minors

Majors

• BA in Writing/Literature

Minors

• Literature
• Women's Studies
• Writing

BA in Writing/Literature
Writing/Literature Major (BA)

The writing/literature major offers a 39-semester-hour course of study that teaches students to read and write with attention to truthfulness, logic, rhetoric, and aesthetics. Graduates pursue careers in teaching, writing, publishing, and other fields that demand perceptive attention to textual detail and the ability to communicate with clarity and grace.

Students are required to obtain a minimum grade of C- in all courses taken for the major.

Major Requirements

The department offers a writing/literature major that creatively combines both disciplines while allowing students freedom to pursue their primary interest. The major consists of 39 semester hours (not including WRIT 100 English Skills, WRIT 103 Individualized English Skills, or WRIT 110 College Writing) distributed as follows:

Literature Core (21 hours)

LITR 350 Literary Criticism (3)
Students must choose 2 of the following courses:
LITR 240 Understanding Drama (3)
LITR 340 Poetry (3)
LITR 440 A Study of the Modern Novel (3)
Students must choose 2 of the following sequences and complete 2 courses from each sequence:

1. LITR 236 Ancient World Literature (3)
   LITR 237 World Literature, Medieval to Modern (3)
   LITR 238 Contemporary World Literature (3)
2. LITR 326 American Literature to 1865 (3)
   LITR 327 American Literature, 1865-1914 (3)
   LITR 328 American Literature, 1914-Present (3)
3. LITR 376 British Literature to 1660 (3)
   LITR 377 British Literature, 1660-1830 (3)
   LITR 378 British Literature, 1830-Present (3)

Writing Core (9 hours)

WRIT 200 Understanding Literature (3)
WRIT 230 Introduction to Journalism (3)
Students must choose one of the following courses:
WRIT 330 Writing for Publication (3)
WRIT 360 Writing Fiction (3)

Electives (9 hours)
Students must choose 9 additional semester hours of literature (LITR) or writing (WRIT) coursework (may include CMCO 320 Dramatic Scriptwriting [3]).

Literature Minor (18 hours)

Minor Requirements
WRIT 200 Understanding Literature (3 hours)
Students must choose 6 semester hours of writing (WRIT)* or literature (LITR) coursework
Students must choose 9 additional semester hours of literature (LITR) coursework above the 300 level

*WRIT electives may not include WRIT 100, 103, or 110

Women's Studies Minor (18 hours)

Minor Requirements
LITR 280 Literary Foundations of Women's Studies (3)
LITR 380 Gender Theory (3)
LITR 480 International Women's Voices (3)
Students must choose 9 semester credits from the following:
BIBL 360 Women and the Bible (3)
COMM 410 Gender Communication Across Cultures (3)
RELI 320 American Women of Faith (3)
SOCI 320 Men and Women in Society (3)
SOCI 323 Sociology of Families (3)
SOCI 326 Sociology of Sexuality (3)

Writing Minor (18 hours)

Minor Requirements
WRIT 200 Understanding Literature (3)
Students must choose 6 semester hours of writing (WRIT)* or literature (LITR) coursework
Students must choose 9 additional semester hours of writing (WRIT)* coursework

*WRIT electives may not include WRIT 100, 103, or 110

Course Descriptions

(Courses are listed alphabetically by prefix. For semesters off campus course prefixes, see off-campus programs.)

Course Prefix	Subject
ACCT	Accounting
AMSL	American Sign Language
ARTS	Art
BIBL	Biblical Studies
BIOL	Biology
BUSN	Business
CHEM	Chemistry
CHMN	Christian Ministries
CMCO	Cinema and Media Communication
COMM	Communication Arts
CSIS	Computer and Information Science
ECON	Economics
EDUC	Education
ENGC	Engineering, Civil
ENGE	Engineering, Electrical
ENGM	Engineering, Mechanical
ENGR	Engineering, General
ESLA	English as a Second Language
FCSC	Family and Consumer Sciences
FREN	French
GEED	General Education
GEOG	Geography
GREK	Greek
GRMN	German
GSCI	General Science
HEBR	Hebrew
HHPA	Human Performance Activity
HHPE	Human Performance Education
HIST	History
HLTH	Health Education
INTL	International Studies
JOUR	Journalism
JPNS	Japanese
LEAD	Leadership Studies
LITR	Literature
MATH	Mathematics
MUSA	Music, Applied Music and Ensembles
MUSI	Music, Theory and Literature
NURS	Nursing
PHIL	Philosophy
PHYS	Physics
PSCI	Political Science

PSYC	Psychology
RELI	Religion
SOCI	Sociology
SPAN	Spanish
SWRK	Social Work
THEA	Theatre
WRIT	Writing

ACCT (Accounting) Courses
Accounting Courses

Additional courses are listed under Business Courses **and** Economics Courses**.**

ACCT 271 Principles of Financial Accounting
3 hours. Accounting is the language of business. This course provides an introductory overview of accounting from a user perspective. Its purpose is to give students a basic understanding of the logic behind the principles of accounting, enabling them to prepare, read, analyze, and interpret financial statements for the purpose of decision making.

ACCT 272 Principles of Managerial Accounting
3 hours. This course is a continuation of ACCT 271. It emphasizes the uses of accounting data by management to make both planning and control decisions. Students will continue to analyze financial statements to assess a company's liquidity, profitability, capital structure, and stock market ratios. Students will also develop operating budgets and use them to evaluate performance. Cost information will be classified by behavior, and allocated under a cost-beneficial system that assists managers in using relevant costs for decision making.
Prerequisite: ACCT 271 Principles of Financial Accounting.

ACCT 275 Field Experience
1-3 hours. An on-the-job experience designed to acquaint the student with the accounting profession.

ACCT 285 Selected Topics
1-3 hours. Occasional special courses chosen to fit the interests and needs of students and faculty.

ACCT 350 Taxation
4 hours. This is an introductory course on fundamental concepts in taxation. The objective of this course is learning to recognize major tax issues inherent in business and financial transactions. The course will emphasize measurement and taxation of business income, along with an introduction to taxation of individuals.
Prerequisite: ACCT 271 Principles of Financial Accounting.

ACCT 370 Accounting Information Systems
2 hours. This course will emphasize the mechanical aspects of accounting and will cover both manual and computerized accounting systems. The course is designed for the accounting major.
Prerequisite: ACCT 271 Principles of Financial Accounting.

ACCT 371 Financial Accounting and Reporting I
4 hours. A comprehensive study of generally accepted accounting principles, including a review of their historical development and a thorough study of the underlying theory supporting them. A detailed study of many specific problems associated with the measurement and reporting of complex business transactions.
Prerequisite: ACCT 271 Principles of Financial Accounting.

ACCT 372 Financial Accounting and Reporting II
4 hours. A comprehensive study of generally accepted accounting principles, including a review of their historical development and a thorough study of the underlying theory supporting them. A detailed study of many specific problems associated with the measurement and reporting of complex business transactions.
Prerequisite: ACCT 371 Financial Accounting and Reporting I.

ACCT 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the

intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

ACCT 405 Volunteer Tax Assistance
1 hour. This course is being offered in conjunction with the Internal Revenue Service and the AARP to give the student skills and training needed to prepare income tax returns for low-to-moderate income people in the community. We will offer free tax preparation and electronic filing for the community.

ACCT 471 Advanced Accounting
4 hours. Accounting for specific types of entities, such as partnerships and not-for-profit organizations. The accounting problems encountered in business combinations and foreign currency translation will be studied.
Prerequisites: ACCT 272 Principles of Managerial Accounting and ACCT 370 Accounting Information Systems.

ACCT 472 Auditing
4 hours. An introduction to the standards and procedures observed by Certified Public Accountants in the examination of financial statements. Special areas of study will include evaluation of internal control, ethical considerations, legal environment, the auditor's reports, and evidence-collecting and evaluation.
Prerequisites: ACCT 272 Principles of Managerial Accounting and ACCT 370 Accounting Information Systems.

ACCT 475 Field Experience
1-6 hours. Supervised experiences in businesses, nonprofit organizations, and public agencies.

ACCT 485 Selected Topics
1-3 hours. Occasional special courses chosen to fit the interests and needs of students and faculty.

ACCT 495 Special Study
1-3 hours. Independent study of subjects outside regular offerings.
Prerequisite: by permission only.

AMSL (American Sign Language)
American Sign Language

AMSL 101 American Sign Language I
3 hours. An introduction to American Sign Language (ASL), the language of the deaf culture in the United States and Canada. The course introduces ASL signs and basic ASL grammar and syntax, and develops an understanding and appreciation of the adult deaf culture. Receptive and expressive skills in conversational ASL are taught. Practice outside the classroom required.

AMSL 102 American Sign Language II
3 hours. An introduction to American Sign Language (ASL), the language of the deaf culture in the United States and Canada. The course introduces ASL signs and basic ASL grammar and syntax, and develops an understanding and appreciation of the adult deaf culture. Receptive and expressive skills in conversational ASL are taught. Practice outside the classroom required.
Prerequisite: AMSL 101 American Sign Language I.

ARTS (Art)
Art

ARTS 101 Basic Design I
3 hours. An introduction to materials, techniques, and theory related to two-dimensional design. Additional course fee is required.

ARTS 102 Basic Design II
3 hours. This course focuses on three-dimensional design. Hands-on projects are the primary learning mode. Additional course fee is required.

ARTS 111 Drawing I
3 hours. This course is a study of materials, methods, and techniques used for drawing with pencil, ink, charcoal, and other drawing media. Art majors given preference. Additional course fee is required.

ARTS 112 Drawing II
3 hours. This course is a study of materials, methods, and techniques used for drawing with pencil, ink, charcoal, and other drawing media. Art majors given preference. Additional course fee is required.
Prerequisite: ARTS 111 Drawing I.

ARTS 201 Beginning Painting
3 hours. Introduces students to materials, methods, and techniques used in painting with acrylics or oils. Additional course fee is required.
Prerequisite: ARTS 111 Drawing I, or instructor's permission.

ARTS 216 Art History Survey to 1450
3 hours. A survey of the elements and concepts of art theory and practice as reflected in culturally and historically significant painting, sculpture, architecture, and other art forms, from prehistoric times to 1450. Additional course fee is required.

ARTS 217 Art History Survey from 1450
3 hours. A survey of the elements and concepts of art theory and practice as reflected in culturally and historically significant painting, sculpture, architecture, and other art forms, from 1450 to the present. Additional course fee is required.

ARTS 221 Beginning Sculpture
3 hours. Introduction to the materials, methods, and techniques used in sculpture. Additional course fee is required.

ARTS 230 Beginning Photography
3 hours. Introduction to the materials, methods, and techniques used in photography. Additional course fee is required.

ARTS 231 Beginning Printmaking
3 hours. An introduction to screen printmaking, and relief printmaking (woodcut, linocut, collagraph) techniques and methods. Additional course fee is required.

ARTS 240 Beginning Mixed Media
3 hours. Introduction to the materials, methods, and techniques used for mixed media artwork. Additional course fee is required.

ARTS 241 Beginning Ceramics
3 hours. Introduction to basic hand-building techniques and surface design. Additional course fee is required.

ARTS 245 Selected Studio Media
3 hours. A lecture/studio course that deals with an area of interest and faculty specialty, such as watercolor, kiln-worked glass, jewelry, encaustic painting, and bookmaking. The lower-division class is required of the student in the given topic before they can take a more advanced course. The student under a different topic may repeat this course. Student may need to purchase additional supplies. Additional course fee is required.

ARTS 250 Introduction to Graphic Design
3 hours. Introduction to the materials, methods, and techniques used in graphic design. Additional course fee is required.

ARTS 275 Field Experience
3 hours. Field Experience provides on-site work experience at an approved business or institutional site.

ARTS 285 Selected Topics
1-3 hours. A lecture/studio class that deals with areas of interest and specialty in studio and graphic arts. Student may need to purchase additional supplies. Additional course fee is required.

ARTS 295 Special Study
1-3 hours. Designed to give two emphases for the serious art student: to allow for further individual study in a medium or area in which no further courses are available, and/or to allow for study in an area for which the student may already have some background and in which no course currently is offered.

ARTS 301 Intermediate Painting
3 hours. A further development of the students' knowledge and use of the materials, methods, and techniques used in painting with acrylics or oils. Additional course fee is required.
Prerequisite: ARTS 201 Beginning Painting.

ARTS 321 Intermediate Sculpture
3 hours. A further development of the students' knowledge and use of the materials, methods, and techniques used in sculpture. Additional course fee is required.
Prerequisite: ARTS 221 Beginning Sculpture.
ARTS 330 Intermediate Photography
3 hours. Provides an opportunity for further development of skills and for the introduction of more advanced techniques. Additional course fee is required.
Prerequisite: ARTS 230 Beginning Photography.

ARTS 331 Intermediate Printmaking
3 hours. A further development of the students' knowledge and use of printmaking (silkscreen, woodcut, linocut, collagraph) and a further introduction to intalio and etching techniques and methods. Additional course fee is required.
Prerequisite: ARTS 231 Beginning Printmaking.

ARTS 340 Intermediate Mixed Media
3 hours. A further development of the students' knowledge and use of the materials, methods, and techniques used for mixed media artwork. Additional course fee is required.
Prerequisite: ARTS 240 Beginning Mixed Media.

ARTS 341 Intermediate Ceramics
3 hours. A further development of the students' knowledge and skill in throwing, hand building, and firing techniques in ceramics. Additional course fee is required.
Prerequisite: ARTS 241 Beginning Ceramics.

ARTS 345 Selected Studio Media
3 hours. A lecture/studio course that deals with an area of interest and faculty specialty, such as watercolor, kiln-worked glass, jewelry, encaustic painting, and bookmaking. The lower-division class is required of the student in the given topic before they can take a more advanced course. The student under a different topic may repeat this course. Student may need to purchase additional supplies. Additional course fee is required.

ARTS 350 Graphic Design 2: Typography
3 hours. Provides an opportunity for further development of skills and an in-depth exploration of letterforms, typographic conventions, and production techniques. Additional course fee is required.
Prerequisite: ARTS 250 Introduction to Graphic Design.

ARTS 355 Selected Topics in Western Art
3 hours. An in-depth study of a specific era or group found within Western art, such as studies in the Baroque and Rococo, Renaissance, or Women in Art. Specific topics will be dependent on the instructor's area of specialization. Additional course fee is required.

ARTS 360 Illustration
3 hours. Introduction of traditional illustration and commercial rendering techniques. Students will refine expressive, observational, and technical drawing, painting, and marker skills as they relate to illustration as a means of visual communication. Additional course fee is required.
Prerequisites: ARTS 111 Drawing I or ARTS 112 Drawing II and ARTS 250 Introduction to Graphic Design.

ARTS 365 Selected Topics in Non-Western Art
3 hours. Art and its relationship to a non-Western culture, e.g., African, Asian, Latin American. Specific topic will be dependent on the instructor's area of specialization. Additional course fee is required.
ARTS 382 Twentieth-Century Art
3 hours. Art and its relationship to Western culture of the 20th century. Additional course fee is required.

ARTS 383 History of Visual Communications
3 hours. Survey of graphic communications throughout history, and the impact of technology on the visual qualities of graphic design, advertising, fashion, media, and industrial design. Beginning with prehistoric petroglyphs and concluding with the World Wide Web, course will examine how culture shapes the practice of graphic design as well as how design shapes its corresponding cultures. Additional course fee is required.

ARTS 384 Contemporary Art Forms
3 hours. An exploration into the forms, movements, and artists found within the current art scene of the 21st century. Special emphasis will be placed on looking at new forms and genres of art such as video, performance, digital, art activism, time-based art, and installation. Additional course fee is required.

ARTS 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

ARTS 401 Advanced Painting
3 hours. Focuses on the individual artistic development of students as they combine techniques and subject matter into a personal style of visual communication. Additional course fee is required.
Prerequisite: ARTS 301 Intermediate Painting.

ARTS 421 Advanced Sculpture
3 hours. Advanced development within the materials, methods, and techniques used in sculpture. Additional course fee is required.
Prerequisite: ARTS 321 Intermediate Sculpture.

ARTS 430 Advanced Photography
3 hours. Focuses on the individual artistic development of students as they combine techniques and subject matter into a personal style of visual communication. Additional course fee is required.
Prerequisite: ARTS 330 Intermediate Photography.

ARTS 431 Advanced Printmaking
3 hours. Focuses on the individual artistic development of students as they combine techniques and subject matter into a personal style of visual communication. Additional course fee is required.
Prerequisite: ARTS 331 Intermediate Printmaking.

ARTS 440 Advanced Mixed Media
3 hours. Focuses on the individual artistic development of students as they combine techniques and subject matter into a personal style of visual communication. Additional course fee is required.
Prerequisite: ARTS 340 Intermediate Mixed Media.
ARTS 441 Advanced Ceramics
3 hours. Focuses on the individual artistic development of students as they combine techniques and subject matter into a personal style of visual communication. Additional course fee is required.
Prerequisite: ARTS 341 Intermediate Ceramics.

ARTS 445 Selected Studio Media
3 hours. A lecture/studio course that deals with an area of interest and faculty specialty, such as watercolor, kiln-worked glass, jewelry, encaustic painting, and bookmaking. The lower-division class is required of the student in the given topic before they can take a more advanced course. The student under a different topic may repeat this course. Student may need to purchase additional supplies. Additional course fee is required.

ARTS 450 Graphic Design 3: Design Applications
3 hours. Advanced studies in the exploration of concepts for solving visual communications problems with emphasis on the use of design-specific software packages on pieces for students' professional portfolios. Additional course fee is required.
Prerequisite: ARTS 350 Graphic Design 2: Typography.

ARTS 451 Packaging, Public Graphics, Signage
3 hours. Design, use, production, and evaluation of product packaging, public graphics, and signage, including exploration of related material and environmental issues. Course will concentrate on computer-assisted production techniques, mock-up presentation, and portfolio development. Additional course fee is required.
Prerequisite: ARTS 450 Graphic Design 3: Design Applications, or by permission.

ARTS 460 Art and Christ
3 hours. A study of the relationship between art and Christianity in the contemporary world. Designed

primarily for studio art majors. Additional course fee is required.
Prerequisite: either ARTS 382 Twentieth Century Art or ARTS 384 Contemporary Art Forms.

ARTS 475 Field Experience
3 hours. Field Experience provides on-site work experience at an approved business or institutional site.
ARTS 485 Selected Topics
1-3 hours. A lecture/studio class that deals with areas of interest in art, such as watercolors, calligraphy, or special topics in art history. Student may need to purchase additional supplies. Additional course fee is required.

ARTS 491 Senior Thesis I
1.5 hours. All students graduating with a major in art will be required to exhibit their work in the Lindgren Gallery or other acceptable alternative location. This course includes the completion of a body of artwork for exhibition, writing a statement of artistic intent, and installing artwork in an exhibition space. Additional course fee is required.
Prerequisite: art major with senior status, or by permission.

ARTS 492 Senior Thesis II
1.5 hours. All students graduating with a major in art will be required to exhibit their work in the Lindgren Gallery or other acceptable alternative location. This course includes the completion of a body of artwork for exhibition, writing a statement of artistic intent, and installing artwork in an exhibition space. Additional course fee is required.
Prerequisite: art major with senior status, or by permission.

ARTS 495 Special Study
1-3 hours. Designed to give two emphases for the serious art student: to allow for further individual study in a medium or area in which no further courses are available, and/or to allow for study in an area for which the student may already have some background and in which no course currently is offered.

BIBL (Biblical Studies)
Biblical Studies

BIBL 100 Bible Survey
4 hours. This course provides an overview of the history, literature, themes, major persons, and key events in the Bible. It provides a biblical foundation for the educational experience of the undergraduate students at George Fox University and is required of all first-year students, including transfers. It may be taken either semester of the student's first year and is a prerequisite for Bible enrichment electives that follow. Alternatively, students may opt to take the two-semester, 6-credit sequence: BIBL 101 and BIBL 102, and this option is strongly recommended for majors and minors in biblical studies, Christian ministries, religion, or philosophy.

BIBL 101 Literature of the Old Testament
3 hours. Using selected books and portions, the Old Testament will be studied with attention given to historic contexts, major religious themes, and literary forms of the Bible.

BIBL 102 Literature of the New Testament
3 hours. Using selected books and portions, the New Testament will be studied with attention given to historic contexts, major religious themes, and literary forms of the Bible.

BIBL 103 Introduction to Biblical Knowledge

3 hours. A course required of students who need cultural preparation for BIBL 100 Bible Survey or BIBL 101 & 102 Literature of the Old & New Testament. Basic concepts of inductive Bible reading are taught and used, with the result that students learn fundamental Bible knowledge, including biblical content, geography, history, and theology. Instruction is delivered in English and Mandarin Chinese. Intended for non-native-English-speaking students in their first semester outside the English Language Institute (ELI) and for non-native-English-speaking students who directly enter the regular GFU program. Prerequisite: Successful completion of the ELI or instructor's permission.

BIBL 240 Wisdom Literature
3 hours. The wisdom literature of the Old Testament is investigated historically, literarily, and theologically. The origin and development of the biblical wisdom traditions in the books of Proverbs, Job, and Ecclesiastes are considered in the context of the broader, international wisdom of the ancient Near East and the intertestamental literature. Taking BIBL 100 Bible Survey or BIBL 101 Literature of the Old Testament first is recommended.

BIBL 250 The Psalms
3 hours. An exploration of the Psalms with special attention to their forms, themes, and original cultural settings as well as how the Psalms have been preserved and applied in the community of faith. Students will also consider approaches to interpreting and learning from the Psalms today. Taking BIBL 100 Bible Survey or BIBL 101 Literature of the Old Testament first is recommended.

BIBL 260 Life of Christ
3 hours. The Synoptic Gospels - Matthew, Mark, and Luke - form the foundation for this inquiry into the life and teaching of Jesus Christ. Taking BIBL 100 Bible Survey or BIBL 102 Literature of the New Testament first is recommended.

BIBL 275 Field Experience
1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: instructor's permission.

BIBL 285 Selected Topics
2-3 hours. Occasional special courses chosen to fit the interests and needs of students and faculty.

BIBL 310 Old Testament History
3 hours. The history of ancient Israel is studied employing the text of the Old Testament narratives in Genesis through Esther, the evidence of archaeology, and other ancient Near Eastern texts. Theological messages and developments will be explored.
Prerequisite: BIBL 100 Bible Survey or BIBL 101 Literature of the Old Testament.

BIBL 330 The Prophetic Writings
4 hours. This course studies the origin and historical development of ancient Israelite prophecy and its culmination in the canonical books of the prophets. The historical and social setting of the prophets will be considered, along with the spiritual themes that dominate and characterize them.
Prerequisite: BIBL 100 Bible Survey or BIBL 101 Literature of the Old Testament.

BIBL 340 Between the Testaments
3 hours. An introduction to history, literature, and theological developments in Israel between 400 B.C. (Ezra) and the first century A.D. (Christ), to provide the basis for understanding both the conclusion of the Old Testament period and the origins of Judaism and Christianity.

Prerequisites: BIBL 100 Bible Survey or BIBL 101 Literature of the Old Testament and BIBL 102 Literature of the New Testament.

BIBL 350 Writings of John
3 hours. This course explores what it means to believe in Jesus Christ, the Son of God, as depicted in the Johannine Gospel and Epistles. Special attention will be given to John's Christology, sociological setting, and message as they relate to the lives of modern readers. Taking BIBL 100 Bible Survey or BIBL 102 Literature of the New Testament first is recommended.

BIBL 360 Women and the Bible
3 hours. This course will examine biblical texts often ignored. Paying attention to women characters, feminine imagery, and household codes, this course will examine the historical, theological, literary, and practical issues concerning gender in the Christian tradition.

BIBL 385 Selected Bible Topics
3 hours. The study of a book or portion of the Bible or a major biblical theme with the purpose of gaining deeper understanding of the biblical topic and of growing in the skills of studying and interpreting the Bible. Topics will vary according to the professor's expertise and research interests as well as the perceived needs of students' educational experiences. May be repeated for different topics.
Prerequisites: BIBL 100 Bible Survey or BIBL 101 Literature of the Old Testament and BIBL 102 Literature of the New Testament or by permission.

BIBL 390 Biblical Basis for Peacemaking
3 hours. Focusing centrally on Jesus' teachings about peacemaking, this course deals with the biblical treatment of peacemaking, including the prophetic and apocalyptic visions of the kingdom, and the interpretations of these teachings by the early church. Attention also will be given to what it means to work for peace in today's world, as co-laborers with Christ.
Prerequisite: BIBL 100 Bible Survey or BIBL 102 Literature of the New Testament.

BIBL 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

BIBL 411 Acts and the Pauline Epistles I
3 hours. An extensive study of the mission and teachings of the New Testament church, as shown in the Acts and the Epistles attributed to Paul. Special attention will be given to ways early Christians dealt with struggles between Jewish and Gentile Christianity, and applications will be made for the church today. The fall semester studies Acts 1-15, Galatians, and Romans.
Prerequisite: BIBL 100 Bible Survey or BIBL 102 Literature of the New Testament.

BIBL 412 Acts and the Pauline Epistles II
3 hours. An extensive study of the mission and teachings of the New Testament church, as shown in the Acts and the Epistles attributed to Paul. Special attention will be given to ways early Christians dealt with struggles between Jewish and Gentile Christianity, and applications will be made for the church today. The spring semester studies Acts 15-28 plus the other Epistles of Paul.
Prerequisite: BIBL 411 Acts and the Pauline Epistles I.

BIBL 475 Field Experience

1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This advanced experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: instructor's permission.

BIBL 480 General Epistles
3 hours. As a study of the non-Pauline letters of the New Testament - Hebrews, James, I and II Peter, and Jude - this course explores the character of Jewish Christianity and its implications for the broader church.
Prerequisite: BIBL 100 Bible Survey or BIBL 102 Literature of the New Testament.

BIBL 485 Selected Topics
2-3 hours. Occasional special courses chosen to fit the interests and needs of students and faculty.

BIBL 495 Special Study
1-3 hours. Individual research. Open to qualified students upon application.

BIOL (Biology)
Biology

BIOL 100 Foundations of Biology
3 hours. A course to fulfill the general education requirement. Deals with the organization of living things, anatomy and physiology of cells and organisms, reproduction and heredity, and the role of energy in the ecosystem. Bioethical considerations are discussed. Two lectures and one two-hour laboratory per week. Additional course fee is required.

BIOL 211 General Biology I
4 hours. An introduction to life science for those majoring in biology and bioscience-related fields. Topics include cellular biology, genetics, systematics, development, ecology, and anatomy and physiology of plants and animals. Three lectures and one two-hour laboratory per week. Additional course fee is required.

BIOL 212 General Biology II
4 hours. An introduction to life science for those majoring in biology and bioscience-related fields. Topics include cellular biology, genetics, systematics, development, ecology, and anatomy and physiology of plants and animals. Three lectures and one two-hour laboratory per week. Additional course fee is required.

BIOL 275 Field Experience
1-6 hours may be earned. Includes internships and practica required for professional programs. The experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: permission of the instructor and chairperson of the department.

BIOL 285 Selected Topics
1-4 hours. Offered when special needs arise or when sufficient enrollment permits. Course content includes specific interests of faculty or visiting professors, or special training required by graduate or professional schools.
Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II or BIOL 331 Human Anatomy and

Physiology I and BIOL 332 Human Anatomy and Physiology II and instructor's permission.

BIOL 300 Evolution
2 hours. A study of mechanisms involved in natural selection and assumptions required. Topics include history of the theory, geochronology, molecular biology, developmental biology, paleontology, comparative physiology, biochemistry, and biogeography. The interface of evolution and Christianity are examined. Two lectures per week.
Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II.

BIOL 310 Developmental Biology
4 hours. Theories and study of differentiation as they apply to growth and development of animals, with some emphasis on the mechanism involved. Includes historical topics, fertilization, embryonic organization, cell induction, histogenesis, organogenesis, and developmental morphogenesis of echinoderms, frogs, chicks, and pigs. Three lectures and one three-hour laboratory per week. Additional course fee is required.
Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II or BIOL 331 Human Anatomy and Physiology I and BIOL 332 Human Anatomy and Physiology II.

BIOL 320 Pathophysiology
3 hours. A study of the basic principles, processes, and physiological changes of alterations in body systems. Three lectures per week.
Prerequisites: BIOL 333 Advanced Physiology or BIOL 331 Human Anatomy and Physiology I and BIOL 332 Human Anatomy and Physiology II.

BIOL 322 Comparative Vertebrate Anatomy
4 hours. The comparative study of the structure and functional morphology of organisms in the phylum Chordata. Laboratory will emphasize dissection of representative vertebrate animals. Three one-hour lectures and one three-hour laboratory per week. Additional course fee is required.
Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II or BIOL 331 Human Anatomy and Physiology I and BIOL 332 Human Anatomy and Physiology II.

BIOL 331 Human Anatomy & Physiology I
4 hours. Structure and function of the human body. Fall semester topics include basic chemistry, body organization, integument, skeleton, muscles, and the nervous system, including special senses. The course meets general education requirements and is designed for nonscience majors. Three lectures and one laboratory per week. BIOL 332 may be taken without BIOL 331. Additional course fee is required.

BIOL 332 Human Anatomy & Physiology II
4 hours. Structure and function of the human body. Spring semester topics include cardiovascular, reproductive, endocrine, respiratory, urinary, and digestive systems. The course meets general education requirements and is designed for nonscience majors. Three lectures and one laboratory per week. BIOL 332 may be taken without BIOL 331. Additional course fee is required.

BIOL 333 Advanced Physiology
4 hours. Investigation of physiological principles in animals, with 4 hours. A majors-level course is intended

to meet the physiology requirement of graduate/professional programs in health-care fields. Investigation of physiological principles in humans/mammals, with emphasis on mechanisms of integration and homeostasis at cellular, organ, and system levels. Topics include muscular, neural, vascular, excretory, and endocrine interactions. Three lectures and one three-hour laboratory per week. Additional course fee is required.
Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II or BIOL 331 Human Anatomy and Physiology I and BIOL 332 Human Anatomy and Physiology II.

BIOL 340 Plant Physiology
4 hours. A study of plant function from the molecular to the organismic level. Photosynthesis, respiration, water relations, growth and development, mineral nutrition, and practical applications will be covered. Three lectures and one three-hour laboratory period per week. Additional course fee is required.
Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II.

BIOL 350 Genetics
4 hours. A general genetics course covering Mendelian genetics, population genetics, and an introduction to molecular biology. This course fulfills the requirement for biology majors, and is appropriate for those with an interest in current topics in genetics, including inheritable diseases, cloning, and other recent scientific breakthroughs. Three lectures and one three-hour laboratory per week. Additional course fee is required.
Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II or BIOL 331 Human Anatomy and Physiology I and BIOL 332 Human Anatomy and Physiology II.

BIOL 360 Ecology
4 hours. An analysis of population, community, and ecosystem dynamics. Laboratory will emphasize field measurements, computer modeling, and behavior. Three lectures and one three-hour laboratory per week, and one required field trip to the Malheur Field Station. Additional course fee required.
Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II.

BIOL 370 Microbiology
4 hours. A course in the structure, metabolism, classification, and health aspects of microorganisms. Methods of microbiological investigation are emphasized. Three lectures and one three-hour laboratory period per week. Additional course fee is required.
Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II or BIOL 331 Human Anatomy and Physiology I and BIOL 332 Human Anatomy and Physiology II or instructor's permission.

BIOL 380 Ornithology
4 hours. A study of avian biology including phylogeny, evolution, anatomy, physiology, behavior, and ecology. Laboratory will emphasize identification, bird banding, and basic anatomy. Two lectures and one three-hour laboratory per week, and one required field trip to the Malheur Field Station. Additional course fee is required.
Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II.

BIOL 390 Systematic Botany
4 hours. Collection, identification, classification, and morphology of vascular plants, with emphasis on the angiosperms. Three lectures and one three-hour laboratory per week, and a required field trip. Additional course fee is required.

Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II.

BIOL 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

BIOL 410 Molecular Biology
4 hours. An introduction to the modern field of molecular biology. We will examine the structure, organization, and transfer of genetic information at the molecular level and its requirement for life processes. Viral, prokaryotic, and eukaryotic systems will be examined. Major themes include transcriptional regulation, post-transcriptional events (RNA processing), and regulation of translation. The laboratory is designed to include current techniques and experiences within the field of molecular biology. Additional course fee is required.
Prerequisites: BIOL 350 Genetics and CHEM 331 Organic Chemistry I.

BIOL 420 Cell Biology
4 hours. This course includes the study of cell physiology, energetics, neurobiology, muscle biology, and cell signaling. Other topics that will be discussed are cancer and immunology at the cellular level. Laboratory will focus on current cell culturing and analysis techniques. Three lectures and one three-hour laboratory per week. Additional course fee is required.
Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II or BIOL 331 Human Anatomy and Physiology I and BIOL 332 Human Anatomy and Physiology II, and CHEM 331 Organic Chemistry I. Recommended: CHEM 341 Biochemistry I.

BIOL 430 Histology
4 hours. A course in the microstructure and ultrastructure of vertebrate tissues and cells. Laboratory techniques will include microtechnique, histochemistry, immunohistochemistry, and transmission electron microscopy. Two lectures and two three-hour laboratories per week. Additional course fee is required.
Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II.

BIOL 450 Advanced Human Anatomy
4 hours. A majors-level course is intended to meet the anatomy requirement of graduate/professional programs in health-care fields. A course presenting a systemic approach to the study of the human body. Lecture presentations begin with an introduction of anatomical terminology, tissue classification, and developmental origins to systems. Body structure will be studied by organ systems and will involve some histology. Laboratory work will follow a regional gross anatomy of the human body through cadaver dissection, human skeletal collections and preserved specimens. Additional course fee is required.
Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II, or BIOL 331 Human Anatomy and Physiology I and BIOL 332 Human Anatomy and Physiology II, or instructor's permission. Recommended: BIOL 333 Advanced Physiology.

BIOL 460 Invertebrate Zoology

4 hours. Comparative phylogeny, morphology, ecology, and life histories of several invertebrate groups and protozoa. Three lectures and one three-hour laboratory per week. Some weekend field trips required. Additional course fee is required.
Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II.

BIOL 465 Biological Research
1-4 hours. Specific instructional programs, laboratory or field research, or independent study as planned under an advisor. A total of not more than 4 hours may be applied toward the major.
Prerequisites: upper-division biology majors and by permission.

BIOL 475 Field Experience
1-6 hours may be earned. Includes internships and practica required for professional programs. The experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: permission of the instructor and chairperson of the department.

BIOL 485 Selected Topics
1-4 hours. Offered when special needs arise or when sufficient enrollment permits. Course content includes specific interests of faculty or visiting professors, or special training required by graduate or professional schools.
Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II or BIOL 331 Human Anatomy and Physiology I and BIOL 332 Human Anatomy and Physiology II and instructor's permission.

BIOL 490 Biological Exploration
2 hours. Discussion- and experience-based course covering scientific analysis, communication, and research.
Prerequisite: biology majors with junior status or by permission.

BIOL 496 Senior Thesis
1 hour. An independent study course for completion of a senior thesis. Required for all thesis-track majors in their senior year.

BUSN (Business)
Business
Additional courses are listed under Accountingand Economics.

BUSN 110 Introduction to Business
3 hours. This introductory survey will examine the major functional areas of business and afford the student an opportunity to consider this major as a path to a career. Emphasis is given to contemporary business concepts, in particular, and examination of business as a field for stewardship.

BUSN 240 Statistics for Business and Economics
3 hours. Statistical procedures with applications in management and economics. Emphasis on the development of a basic knowledge of the statistical tools available for analysis of problems and decision making.

Prerequisite: high school algebra or equivalent.

BUSN 275 Field Experience
1-6 hours. Supervised experiences in businesses, nonprofit organizations, and public agencies.

BUSN 285 Selected Topics
1-3 hours. Occasional special courses chosen to fit the interests and needs of students and faculty.

BUSN 300 Management
3 hours. A study of the theory and practice of management. The course involves discussion and application of areas such as social responsibility, strategy, problem solving, communication, change, job performance, and financial/operational controls.
Prerequisites: BUSN 110 Introduction to Business, junior status.

BUSN 310 Financial Management
3 hours. An introduction to the finance function of a business entity. Specific topics to be studied include capital budgeting, cost of capital determination, sources of financing, leverage and its effect on the profits and risk of business, and managing the asset mix and capital structure of a business.
Prerequisites: ACCT 272 Principles of Managerial Accounting II, BUSN 240 Statistics for Business and Economics, ECON 201 Principles of Microeconomics, and ECON 202 Principles of Macroeconomics.

BUSN 340 Marketing
3 hours. Study of the marketing concept, consumer demand and behavior, and marketing functions of the firm. The objective is to understand the development of marketing channels, products, prices, and promotion strategies.
Prerequisites: BUSN 110 Introduction to Business, junior status.

BUSN 360 Business Law
3 hours. Covers the legal aspects of common business transactions. Includes the law of contracts, agency, negotiable instruments, and other phases of private law.

BUSN 380 Information Systems
3 hours. An introduction to systems and development concepts, information technology (IT), and application software. Explanation of how information is used in organizations and how IT enables improvement in quality, timeliness, and competitive advantage. Examination of the changing role of digital information in society. Introduction to concepts of networking and telecommunications.
Prerequisite: BUSN 110 Introduction to Business.

BUSN 390 Ethics in the Workplace
3 hours. This course is designed to prepare students to meet the ethical challenges facing employees in modern business and nonprofit organizations. The course will address moral issues at every organizational level - personal, interpersonal, group, and system wide. Topics will include identifying personal mission and values; developing character; faith in the workplace; ethical perspectives, moral reasoning, and decision-making formats; ethical organizational communication and influence; ethical group behavior and leadership; and the creation of ethical organizational climates.
Prerequisite: junior or senior status.

BUSN 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and

interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

BUSN 420 Marketing Communication and Strategy
4 hours. Consideration of promotional strategies, with particular emphasis on evaluation and selection of advertising media, public relations, selling, and management of the promotion mix. Investigation of the international aspects of marketing to include importing, exporting, and the role of multinational firms.
Prerequisites: BUSN 340 Marketing, senior status.

BUSN 440 International Management
4 hours. Managing and organizing global operations, with attention to both multinational corporations and nonprofit organizations. Consideration will be given to the strategy and structure of international business, the practices of international commerce, the challenges of living and working in other cultures, and career development in a global context.
Prerequisites: BUSN 300 Management, senior status.

BUSN 450 Marketing Research and Decision Making
4 hours. Research methods for marketing decisions. Topics include defining research needs, the formulation of research questions, consideration of alternative methodologies, sources of data and information, sampling, and interpretation and reporting of findings. Consideration of strategies for decision making relative to the marketing mix. Examination of forecasting, pricing, and decision-making models.
Prerequisites: BUSN 240 Statistics for Business and Economics, BUSN 340 Marketing, senior status.

BUSN 471 Finance I - Investments, Financial Markets, and Institutions
4 hours. Topics will include: 1) investments - stock and bond valuation, market efficiency, modern portfolio theory, asset allocation, and risk and return evaluation; 2) portfolio simulation; and 3) role and management of financial intermediaries including the U.S. banking system and other depository institutions.
Prerequisites: BUSN 310 Financial Management, senior status.

BUSN 472 Finance II - Advanced Corporate Finance
4 hours. Topics will include: 1) short-term working capital management, such as cash and marketable securities, accounts receivable, inventory, and sources of short-term financing; and 2) long-term financial decisions such as capital structure, dividend policy, sources of long-term financing. The emphasis will be on case analyses.
Prerequisites: BUSN 310 Financial Management, senior status.

BUSN 475 Field Experience
1-6 hours. Supervised experiences in businesses, nonprofit organizations, and public agencies.

BUSN 480 Organizational Behavior
4 hours. This course examines the complex and dynamic interactions of people and organizations in society. Particular focus will be on organizational theory, human perception, motivation, group dynamics, power, conflict, culture, leadership, organizational development, and managing change.
Prerequisites: BUSN 300 Management, senior status.

BUSN 485 Selected Topics
1-3 hours. Occasional special courses chosen to fit the interests and needs of students and faculty.

BUSN 491 Senior Capstone - Strategy and Planning
2 hours. Students will establish a foundation of the key principles of strategic thinking and management as they relate to the world of business. The course is highly integrative in nature, incorporating many of the

integral components of marketing, accounting, finance, economics, and management. In this course student teams will actually develop a business model, including a financial, marketing, and economic plan.
Prerequisite: senior business or accounting major.

BUSN 492 Senior Capstone - Strategy and Implementation
2 hours. Students will operate the business they developed in BUSN 491. The integrative nature of the class will require them to use learning from their prior business courses within the context of operating their businesses. Focus will be on thinking strategically, managing change within the organizational culture, and developing communication and leadership skills.
Prerequisite: BUSN 491 Senior Capstone - Strategy and Planning.

BUSN 495 Special Study
1-3 hours. Independent study of subjects outside regular offerings of particular interest to business and economics majors. Regular reading reports and conferences are scheduled.
Prerequisite: upper-division business administration majors and by permission.

CHEM (Chemistry)
Chemistry

CHEM 100 Chemistry of Life
3 hours. This course will cover concepts of organic and biochemistry at an elementary level. Emphasis will be placed on medical and biological applications of chemical principles. Topics will include acids and bases, alcohols, carbohydrates, proteins, lipids, and metabolism. This course meets general education requirements and is designed for non-science majors. Two lectures and one laboratory period per week. Additional course fee is required.

CHEM 110 Chemistry and Our Environment
3 hours. This course will cover introductory concepts of chemistry. Special attention is given to topics of current interest, such as environmental chemistry, polymer chemistry, and household chemistry. This course meets general education requirements and is designed for non-science majors. It is recommended for students who need an introduction to chemistry prior to taking CHEM 211 General Chemistry. Two lectures and one laboratory per week. Additional course fee is required.

CHEM 151 General, Organic, and Biological Chemistry I
4 hours. This course covers introductory and intermediate principles of chemistry. Special emphasis is placed on those aspects of general and organic chemistry that are pertinent to biochemistry. This course provides a background for students with interests in prenursing, nutrition, and related allied health areas. (This course does not meet the requirements for science majors.) Three lectures and one two-hour laboratory per week. Additional course fee is required.

CHEM 152 General, Organic, and Biological Chemistry II
4 hours. This course covers introductory and intermediate principles of chemistry. Special emphasis is placed on those aspects of general and organic chemistry that are pertinent to biochemistry. This course provides a background for students with interests in prenursing, nutrition, and related allied health areas. (This course does not meet the requirements for science majors.) Three lectures and one two-hour laboratory per week. Additional course fee is required.
Prerequisite: CHEM 151 General, Organic, and Biological Chemistry I.

CHEM 211 General Chemistry I

4 hours. This course covers fundamental chemical principles, reactions, and mode theories. Special emphasis is given to the role of chemistry in everyday life. Three lectures and one laboratory period per week. Additional course fee is required.
Prerequisite: high school chemistry, CHEM 110 Chemistry and Our Environment, or math SAT score.

CHEM 212 General Chemistry II
4 hours. This course covers fundamental chemical principles, reactions, and mode theories. Special emphasis is given to the role of chemistry in everyday life. Three lectures and one laboratory period per week. Additional course fee is required.
Prerequisite: CHEM 211 General Chemistry I.

CHEM 275 Field Experience
1-3 hours. Supervised experience with an off-campus industry or agency using applied chemistry.
Prerequisite: instructor's permission.

CHEM 285 Selected Topics
1-4 hours. Scheduled as a regular class with topics chosen to meet the special needs and interests of students, faculty, or visiting professors.
Prerequisite: upper-division status.

CHEM 310 Analytical Chemistry
4 hours. An introduction to the principles and techniques of quantitative chemical analysis. Subject matter includes volumetric and complexometric analysis; neutralization, precipitation, and oxidation-reduction titrations; solubility; statistical methods of data analysis; UV/Vis and atomic absorption spectroscopy; fluorescence spectroscopy; and chromatographic methods. Three lectures and one three-hour laboratory per week. Additional course fee is required.
Prerequisites: CHEM 211 General Chemistry I and CHEM 212 General Chemistry II.

CHEM 320 Advanced Inorganic Chemistry
4 hours. A survey of topics in inorganic chemistry, including atomic structure, chemical bonding, periodic trends of structure, physical properties and reactivities of the elements, group theory as applied to molecular structure, and nonmetal and transitionmetal chemistry. The laboratory portion will be an introduction to classical and modern techniques for synthesizing inorganic compounds of representative and transition metal elements and the extensive use of spectroscopy and other physical measurements to characterize compounds. The syntheses and characterization of inorganic materials is also included. Three lectures and one three-hour laboratory per week. Additional course fee is required.
Prerequisites: CHEM 211 General Chemistry I and CHEM 212 General Chemistry II.

CHEM 331 Organic Chemistry I
4 hours. A study of principles, structure, bonding, reactions, and energy as related to carbon chemistry. The laboratory stresses materials, equipment, and skills in synthesis, purification, and identification of representative groups of organic compounds. Three lectures and one three-hour laboratory per week. Additional course fee is required.
Prerequisites: CHEM 211 General Chemistry I and CHEM 212 General Chemistry II.

CHEM 332 Organic Chemistry II
4 hours. A study of principles, structure, bonding, reactions, and energy as related to carbon chemistry. The laboratory stresses materials, equipment, and skills in synthesis, purification, and identification of representative groups of organic compounds. Three lectures and one three-hour laboratory per week. Additional course fee is required.
Prerequisites: CHEM 331 Organic Chemistry I.

CHEM 341 Biochemistry I
4 hours. A systematic and theoretical study of the biochemical activities of living cells. Topics to be covered will include: the structure, properties, and molecular interactions of biomolecules, metabolic pathways, bioenergetics, and metabolism of biomolecules, and RNA, DNA, and protein synthesis. Three lectures and one three-hour laboratory per week. Additional course fee is required.
Prerequisites: CHEM 331 Organic Chemistry I and CHEM 332 Organic Chemistry II.

CHEM 342 Biochemistry II
4 hours. A systematic and theoretical study of the biochemical activities of living cells. Topics to be covered will include: the structure, properties, and molecular interactions of biomolecules, metabolic pathways, bioenergetics, and metabolism of biomolecules, and RNA, DNA, and protein synthesis. Three lectures and one three-hour laboratory per week. Additional course fee is required.
Prerequisites: CHEM 341 Biochemistry I.

CHEM 380 Advanced Organic Chemistry
4 hours. An advanced study of organic reactions and structures including, reaction mechanisms, linear free energy relationships, isotope effects, pericyclic reactions, spectroscopy, and molecular modeling. The laboratory will include the synthesis, isolation, and identification of organic compounds. Spectroscopy will be emphasized for the analysis of compounds. Three lectures and one four-hour laboratory per week. Additional course fee is required.
Prerequisites: CHEM 331 Organic Chemistry I and CHEM 332 Organic Chemistry II.

CHEM 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

CHEM 401 Physical Chemistry I
4 hours. An introduction to modern theoretical chemistry emphasizing classical and statistical thermodynamics, quantum mechanics, molecular structure, spectroscopy, and kinetics. Three lectures and one three-hour laboratory per week. Additional course fee is required.
Prerequisites: CHEM 211 General Chemistry I and CHEM 212 General Chemistry II, MATH 301 Calculus III, and either PHYS 202 General Physics II or PHYS 212 General Physics with Calculus II.

CHEM 402 Physical Chemistry II
4 hours. An introduction to modern theoretical chemistry emphasizing classical and statistical thermodynamics, quantum mechanics, molecular structure, spectroscopy, and kinetics. Three lectures and one three-hour laboratory per week. Additional course fee is required.
Prerequisites: CHEM 401 Physical Chemistry I and either PHYS 202 General Physics II or PHYS 212 General Physics with Calculus II.

CHEM 430 Advanced Instrumental Analysis
3 hours. Principles and techniques of modern instrumental physiochemical and analytical measurements. Subject matter includes laboratory electronics; electrochemical methods; Fourier transform infrared absorbance spectroscopy; nuclear magnetic resonance; and mass spectrometry. Particular attention is given to the design and function of the instruments used in these techniques. Two lectures and one three-hour laboratory per week. Additional course fee is required.
Prerequisite: CHEM 310 Analytical Chemistry.

CHEM 465 Chemical Research
1-4 hours per semester (not to exceed a total of 6 hours). Experimental and/or theoretical research in a topic of the student's choosing, supervised by the chemistry faculty.
Prerequisite: upper-division chemistry majors and by permission of individual faculty member.

CHEM 475 Field Experience
1-3 hours. Supervised experience with an off-campus industry or agency using applied chemistry.
Prerequisite: instructor's permission.

CHEM 485 Selected Topics
1-4 hours. Scheduled as a regular class with topics chosen to meet the special needs and interests of students, faculty, or visiting professors.
Prerequisite: upper-division status.

CHMN (Christian Ministries)

Christian Ministries

CHMN 120 Incarnational Youth Ministry: Young Life
1 hour. A study of the theological and historical background for relational ministry with young people. Students will gain practical ministry skills that will be useful in ministering relationally with middle school and high school students. Students will also learn to communicate the gospel and their faith in a contextualized manner for an adolescent culture as well as a post-modern culture.

CHMN 130 Christian Discipling
4 hours. A study of biblical principles of evangelism, nurturing, and teaching. This study encompasses the Christian educational responsibilities of the local church and parachurch agencies.

CHMN 230 The Christian and the Outdoors
3 hours. Offered 2009-10. An exploration of the biblical foundations for a variety of outdoor activities available to individuals, families, church groups, and Christian camps. Of significant importance is a consideration of the potential that outdoor experiences have for teaching and learning. Additional course fee is required.

CHMN 235 Walkabout
1 hour. A campus leadership training program that links outdoor education, experiential learning, and team building. It is a guided, intentional use of the backcountry to assist developing students into campus leaders who are intentional about their roles as spiritual, community, and academic models. Pass/No Pass.
Prerequisite: current member of the residence life staff or the ASC Central Committee.

CHMN 275 Field Experience
1-5 hours. Supervised internship in areas of Christian ministry, with emphasis on application of methods learned.
Prerequisite: upper-division students and by application.

CHMN 285 Selected Topics
2-3 hours. Occasional special courses chosen to fit the interests and needs of students and faculty.

CHMN 320 Relational Bible Teaching

2 hours. An analysis of the concept of Bible teaching in a small-group setting. Classroom practice in using the various methods as they relate to home Bible studies, camp settings, or the Sunday school.

CHMN 330 Foundations of Youth Ministry
4 hours. A study of motivation, guidance, and method in reference to youth and youth ministries, aimed at developing leadership skills.

CHMN 360 Perspectives in Christian Education
3 hours. A study of the historical background and philosophical development in Christian education, with an examination of the influence of these antecedents upon theory and practice. Contemporary trends in current and emerging ministries will be assessed against such perspectives.

CHMN 370 Camp Programming and Counseling
3 hours. A camping overview: its historical development and philosophy. Types of camps, program activities, teaching-learning models, leadership recruitment, and training - with special emphasis on methods of camp counseling -are covered. Overnight campout is required. Additional course fee is required. (Identical to HHPE 370.)

CHMN 381 Counseling
3 hours. A study of theory and technique of person-centered counseling. The course is designed to teach basic theoretical postulates and to focus on effective intervention skills for those anticipating future work in Christian ministries, teaching, or mental health settings. Recommended as a prerequisite for field experience work (PSYC 475). (Identical to PSYC 381.)
Prerequisite: PSYC 150 General Psychology, sophomore status or above. Recommended: PSYC 330 Personality Theories.

CHMN 390 Theological Foundations of Christian Ministry
3 hours. A study of the relationships of theology to Christian ministry. This course explores the ways in which particular theologies affect the practice of ministry in the church.

CHMN 391 Shared Praxis I: Introduction to Educational Ministry
4 hours. An exploration of an individual's call to ministry and a study of present praxis in Christian educational ministry, with emphasis on storytelling and community building. This is the first of four semesters. Additional course fee is required.
Prerequisite: department interview and approval, sophomore or junior status.

CHMN 392 Shared Praxis II: Christian Theology Related to Ministry
4 hours. A study of the faith life of the Christian community, expressed through Scripture, traditions, theology, and church history, as it relates to Christian educational ministry. This is the second of four semesters. Additional course fee is required.
Prerequisite: CHMN 391 Shared Praxis I: Introduction to Educational Ministry.

CHMN 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

CHMN 420 Speaking as Ministry
3 hours. A practical course providing methods and introductory techniques for preparation and delivery of Christian speaking as ministry. A variety of message construction types will be studied, and students will

have opportunity to speak and receive student and instructor evaluation. This course will cover sermon preparation and delivery, devotional and inspirational speaking, extemporaneous sharing, and broader aspects of communicating Christian truth.

CHMN 435 Walkabout
1 hour. A campus leadership training program that links outdoor education, experiential learning, and team building. It is a guided, intentional use of the backcountry to assist developing students into campus leaders who are intentional about their roles as spiritual, community, and academic models. Pass/No Pass.
Prerequisite: current member of the residence life staff or the ASC Central Committee.

CHMN 440 Camp Administration
2 hours. Designed to develop a basic understanding of programming, business, and leadership at an administrative level. A weekend camping trip is required. Additional course fee is required. (Identical to HHPE 440.)
Prerequisite: CHMN 370 Camp Programming and Counseling or instructor's permission.

CHMN 475 Field Experience
1-5 hours. Supervised internship in areas of Christian ministry, with emphasis on application of methods learned.
Prerequisite: upper-division students and by application.

CHMN 485 Selected Topics
2-3 hours. Occasional special courses chosen to fit the interests and needs of students and faculty.

CHMN 491 Shared Praxis III: Methods and Skills in Ministry
4 hours. A study of ministry methods and skills that will enable students to appropriate the Christian story and vision to their own ministry contexts. This is the third of four semesters. Additional course fee is required.
Prerequisite: CHMN 392 Shared Praxis II: Christian Theology Related to Ministry.

CHMN 492 Shared Praxis IV: Supervised Field Experience
4 hours. Active involvement in an area of Christian ministry through supervised experience, and reflection on ministry experiences through class support and discussion. This is the fourth of four semesters.
Prerequisite: CHMN 491 Shared Praxis III: Methods and Skills in Ministry.

CHMN 495 Special Study
1-3 hours. Individual research. Open to qualified students upon application.

CMCO (Cinema and Media Communication)
Cinema and Media Communication

CMCO 160 Introduction to Film Studies
3 hours. The critical analysis of the moving image, including television programming and film. Employs textual, contextual, and ethical methods for illuminating the relationship of these media artifacts to modern culture, both secular and religious.

CMCO 220 International Film Studies
3 hours. Film is a truly international medium, stretching across borders, decades, and cultures. By viewing and analyzing films from other countries, we can learn much about the art and culture of the countries that

produced them. Students will analyze international films in terms of the cultural, political, ideological, and economic forces that shaped them.

CMCO 230 Introduction to Video Production
3 hours. An introduction to the language and the technical, creative, and aesthetic elements of the video production process. Course includes basic lighting, sound, camera operation, composition, and design of visual elements, producing, and directing through both classroom and supervised laboratory experiences.

CMCO 233 Contemporary Christian Songwriting and Producing
3 hours. Working with professionals in the contemporary Christian music field, students will learn basic techniques of songwriting including lyrics and song structure. Students will write their own songs, which they will then produce and record.
Prerequisite: CMCO 243 Introduction to Audio or instructor's permission.

CMCO 243 Introduction to Audio
3 hours. Concentrating on recording, editing, and mixing multitrack audio on a digital platform. The course will look at special recording techniques for (a) human voices in speaking, singing, and dramatic performance; (b) musical instruments; (c) dramatic sound effects. Students will complete projects in editing and mixing of multitrack sound programs.

CMCO 250 Digital Multimedia Production
3 hours. The Web has revolutionized the way we find and utilize information. Students in this class will have the opportunity to originate graphics, audio, text elements, and simple animations elements and build them into interactive Web pages.

CMCO 260 Scriptwriting for Media
3 hours. An introduction to the styles, techniques, content, and forms of television writing. Both dramatic (sitcom and dramatic features) and nondramatic (news and informational) forms of writing are covered. The writing of several short scripts is required in the course.
Prerequisite: WRIT 110 College Writing.

CMCO 270 Broadcast News I
3 hours. This class covers the basic principles of broadcast journalism: broadcast news writing, broadcast videography, and Internet-distributed video news production. Students participate in a student-focused television news show by creating news and feature videos for broadcast (cable, online); they will create a demo tape/DVD from those packages. (Identical to JOUR 270)
Prerequisite: CMCO 230 Introduction to Video Production or instructor's permission.

CMCO 275 Field Experience
2-10 hours. An internship experience designed to give students an opportunity to practice video and film techniques and principles in an off-campus, professional setting. Students choose from a variety of options - cable, broadcast, corporate, medical, or commercial production facilities - based on the student's goals and interests. Up to 3 hours may apply to the communication media major.
Prerequisite: instructor's permission.

CMCO 285 Selected Topics
1-3 hours. An introductory seminar offered on an occasional basis addressing a current topic in the field that is of special interest to students and current faculty.

CMCO 310 Intermediate Directing
3 hours. Working with classmates as crew, students take turns directing scenes from Hollywood movies in

this hands-on directing workshop. Beyond storyboarding and shot planning, this class focuses on working with actors, working with crew, and other skills required for balancing the technical and the artistic aspects of directing.
Prerequisite: CMCO 230 Introduction to Video Production or instructor's permission.

CMCO 320 Dramatic Scriptwriting
3 hours. An introduction to the art of writing for film. Dramatic structure is emphasized and plot scenarios, dialogue, and characterization are among several topics examined and exercised. Students create scripts for original features, short films, or plays. The writing experience is complemented through an examination of the business aspects of writing, including spec-scripts, agents, and the Hollywood system.
Prerequisite: CMCO 260 Scriptwriting for Media or instructor's permission.

CMCO 333 Camera and Lighting
3 hours. This course explores the various camera and lighting techniques used in film and digital video production. Students will focus on applying lighting techniques and camera movement to create specific visual effects. Students will apply the ideas discussed in the text and lectures to a series of in-class explorations, in addition to scenes filmed outside of class.
Prerequisite: CMCO 230 Introduction to Video Production or instructor's permission.

CMCO 343 Sound Design
3 hours. This class explores the use of digital sound technology to record, edit, and mix audio for film and television. Students will use their audio skills to record sound both in the field and in the recording studio.
Prerequisite: CMCO 243 Introduction to Audio or instructor's permission.

CMCO 344 Studio Sound Recording
3 hours. Students will learn to record music and vocal tracks in a digital multitrack studio environment. Students will produce music, advertising, and other audio projects in this hands-on studio course.
Prerequisite: CMCO 243 Introduction to Audio or instructor's permission.

CMCO 350 Editing Video
3 hours. Theory and practice in editing the moving image. Analysis of Hollywood and avant-garde styles of editing is followed by practice exercises illustrating each concept.
Prerequisite: CMCO 230 Introduction to Video Production or instructor's permission.

CMCO 355 Event Video Production
3 hours. This course concentrates on live multicamera production of sporting, theatrical, and entertainment events. The course concentrates on producing and directing components, but also features setting up multicamera remote systems for video broadcast. May be repeated for a maximum of 6 hours total.
Prerequisite: CMCO 230 Introduction to Video Production or instructor's permission.

CMCO 360 Animation I
3 hours. An introduction to the fundamentals of animation production, from traditional cel animation to 2-D computer animation. In this hands-on workshop, students will produce short animation projects.

CMCO 363 Motion Graphics and Special Effects
3 hours. Students explore different means of producing special effects using digital computer imaging, blue-screens, compositing, and old-fashioned movie magic. Students will also learn how to create animated text sequences and video graphics.

CMCO 370 Broadcast News II
3 hours. This class takes students out of the classroom into the field to learn Electronic News Gathering

(ENG). As part of the class, students produce a news program to be aired on cable access or campus TV network.
Prerequisite: CMCO 270 Broadcast News I or instructor's permission.

CMCO 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

CMCO 430 Producing and Directing Video
3 hours. An advanced course in video directing and producing. Students explore the preproduction, production, and postproduction of original short feature videos for the Fox Film Festival.
Prerequisite: CMCO 350 Editing Video.

CMCO 460 Advanced Animation
3 hours. Students continue to develop their skills in 2-D or 3-D animation, including techniques for creating characters in the digital domain, transformation, and movement.
Prerequisite: CMCO 360 Animation I or instructor's permission.

CMCO 470 Journalism II
3 hours. Students hone journalistic skills in areas such as interviewing techniques, cultivating sources, investigative reporting, and editing and layout. (Identical to JOUR 470.)
Prerequisite: WRIT 230 Introduction to Journalism or instructor's permission.

CMCO 475 Field Experience
2-10 hours. An internship experience designed to give students an opportunity to practice video and film techniques and principles in an off-campus, professional setting. Students choose from a variety of options - cable, broadcast, corporate, medical, or commercial production facilities - based on the student's goals and interests. Up to 3 hours may apply to the communication media major.
Prerequisite: instructor's permission.

CMCO 481 Advanced Production Workshop I
3 hours. In this intensive hands-on production course, students will draw on all their filmmaking skills to produce 10- to 30-minute shorts - narrative, documentary, or animated - for their portfolios and film festivals. This semester focuses on preproduction and production, including script breakdown, casting, and actual filming.
Prerequisites: one of the following: CMCO 310 Intermediate Directing, CMCO 320 Dramatic Scriptwriting, CMCO 333 Camera & Lighting, CMCO 343 Sound Design, CMCO 350 Editing Video, CMCO 430 Producing & Directing Video, or instructor's permission. Admission to the class is a competitive process based on the student proposal and script.

CMCO 482 Advanced Production Workshop II
3 hours. This course continues the project started in Advanced Production Workshop I into postproduction, including editing, sound design, color correction, and DVD authoring.
Prerequisite: CMCO 481 or instructor's permission.

CMCO 485 Selected Topics
1-3 hours. An advanced seminar offered on an occasional basis addressing a current topic in the field that is of special interest to students and current faculty.

CMCO 490 Senior Portfolio
1 hour. This class helps prepare students for entry into the professional realm by developing networking and marketing strategies, and by preparing a professional reel of their best work, which will be critiqued by members of the local media industry.
Prerequisite: senior status.

CMCO 495 Special Study
1-3 hours. Individual study in an area of special interest to the student. Offered to exceptional students at the discretion of a faculty member.

COMM (Communication Arts)
Communication Arts

COMM 100 Introduction to Communication
3 hours. An introduction to the study of human communication. Application of communication principles to interpersonal, group, and public contexts. Particular emphasis on the practice of public speaking. Students will prepare and deliver several oral presentations.

COMM 200 Persuasive Communication
3 hours. A presentation of key principles of persuasion as they are reflected in typical organizational communication contexts. Focus on developing a planning sequence that will function as a practical guide for designing, executing, and evaluating communication events. Students will be expected to develop a "real world" communication event, e.g., publicity campaign, speech, newsletter. (Identical to JOUR 200)
Prerequisite: COMM 100 Introduction to Communication or equivalent.

COMM 210 Interpersonal Communication
3 hours. Theoretical and reflective study and guided experience in dyadic and small-group communication, with attention given to interpersonal communication, listening behavior, nonverbal communication, and conflict resolution.
Prerequisite: COMM 100 Introduction to Communication or equivalent.

COMM 220 Intercultural Communication
3 hours. Communication as it affects and is affected by language and culture. Contextualized use of communication within speech communities. Intercultural effectiveness. Cultural communication theory. Competent intercultural experiences in co-cultures (ethnic, gender, intergenerational, deaf, and so on) and global cultural groups.

COMM 230 Mass Media and Popular Culture
3 hours. Survey of the historical development of newspapers, magazines, broadcast media, and cinema. Analysis of the role(s) of mass media in shaping and altering opinion and values in contemporary culture.

COMM 270 Introduction to Organizational Communication
3 hours. An examination of organizations from a communication vantage point. Combines study of theoretical perspectives with skill development. Students will build organizational communication competencies through understanding the nature of communication in the organizational context and by practicing effective communication skills. Possible topics include communication networks and climates, superior-subordinate relationships, computer-mediated communication, organizational identification, communication audits, group and team communication, interviewing, meetings, and presentations.

COMM 275 Field Experience
1-10 hours. Experience in supervised field situations, generally off campus, involving extensive communication activity. Admission to course and amount of credit determined by the faculty supervisor. Pass/No Pass.

COMM 285 Selected Topics
3 hours. A variety of topics may be offered that reflect the interests of faculty, visiting professors, and students.

COMM 300 Communication Theory and Research
3 hours. A study of the major sources of communication theory (e.g., meaning theory, humanistic psychology, symbolic interactionism, relational theory, information processing) together with specific contemporary exemplifications of each approach. Special focus is on the nature and progress of scientific inquiry in communication theory.
Prerequisite: 6 hours of communication arts or media communication courses, including COMM 100 Introduction to Communication.

COMM 305 Professional Communication Activities
1-3 hours. Offered each term. Structured to give students experience in "real world" communication events, generally on campus. May be repeated for a maximum of 6 hours total. Pass/No Pass.

COMM 310 Conflict Resolution
3 hours. A study of communication principles found useful in managing conflict productively. Focus is given to conflict occurring in institutional and organizational settings between individuals and groups. Attention also is given to conflict in social, national, and international settings. (Identical to PSCI 310.)

COMM 315 Forensics
1-3 hours. This course prepares students to create competitive speeches and debates in regional intercollegiate tournaments. May be repeated for a maximum of 6 hours total.

COMM 320 Introduction to Public Relations
3 hours. A course designed to introduce and develop a clear concept of public relations as a communication profession. Topics to be covered include the function of public relations in both public and private enterprises; the process of planning and implementing a public relations communication campaign; techniques for communicating with various publics; and the laws and ethics governing the practice of public relations. (Identical to JOUR 320)
Prerequisite: one course in business or communication arts.

COMM 324 Argumentation and Critical Thinking
3 hours. A course in practical reason. Includes a survey of theories of argumentation, analysis of public arguments, and several speeches, including a debate.
Prerequisite: COMM 100 Introduction to Communication or instructor's permission.

COMM 340 General and Cultural Linguistics
3 hours. A study of the nature of verbal symbols as they function in communication. The course will include phonetic transcription, semantics, modern grammatical theories, history of the English language, and modern English dialects.

COMM 343 Second Language Acquisition
3 hours. This course familiarizes students with linguistic, psychological, cognitive, and socio-cultural aspects of second (or additional) language acquisition and related language acquisition theories. Students reflect on

their own language learning and acquisition experiences in light of these theories and consider implications for the teaching and learning of additional languages. Offered every other year.

COMM 350 Introduction to TESOL (Teaching English to Speakers of Other Languages)
3 hours. An introduction to the theory and practice of teaching English (or any language) to non-native speakers. Topics include principles of language teaching, communicative and interactive approaches, teaching methods and techniques for improving different language skills, lesson planning, materials selection and adaptation, testing, cultural issues, teaching English as Christian witness, and working with English-as-a-second-language students in a mainstream class. Students relate theory to practice in a school- or community-based practicum.

COMM 360 Nonverbal Communication
3 hours. A study of the nonverbal dimensions of interpersonal communication. Includes a consideration of physical behavior, facial expression, eye behavior, personal appearance, personal space, clothing, touch, voice, and use of objects as means of communication and in relation to verbal communication. Involves participation in nonverbal simulations and exercises.
Prerequisite: one communication arts course.

COMM 380 Leadership Communication
3 hours. An introduction to the study and practice of leadership from a communication perspective. Particular focus on the relationship between communicating and leading. Examination of leadership concepts and theories in organizational, group, and public contexts. Students will analyze their personal leadership styles and develop leadership communication skills through team projects and classroom exercises.
Prerequisite: sophomore standing or above.

COMM 390 Small Group Communication
3 hours. A course that examines and applies theories of small-group structures, climate, roles, leadership, motivation, and conflict management.
Prerequisite: Comm 100 Introduction to Communication.

COMM 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

COMM 400 Critical Approaches to Communication
3 hours. Methods of rhetorical criticism as applied to public communication of the past and present, including but not limited to speeches, broadcasts, films, and campaigns. Analysis of current trends in rhetorical criticism.
Prerequisite: COMM 300 Communication Theory and Research or instructor's permission.

COMM 410 Gender Communication Across Cultures
3 hours. A course designed to introduce students to the nature and function of gender differences in communication on a cross-cultural basis. Examines biological, cultural, linguistic, and power theories that attempt to explain these differences. Focus given to verbal (spoken and written) language as well as nonverbal communication codes. Counts toward globalization requirement.

COMM 420 Intercultural Communication

3 hours. Communication as it affects and is affected by language and culture. Contextualized use of communication within speech communities. Intercultural effectiveness. Cultural communication theory. Competent intercultural experiences in co-cultures (ethnic, gender, intergenerational, deaf, and so on) and global cultural groups.

COMM 465 TESOL Field Experience
1-3 hours. Supervised teaching experience in a school or community program for learners of English as a second language.
Prerequisite: COMM 350 Introduction to TESOL.

COMM 475 Field Experience
1-10 hours. Experience in supervised field situations, generally off campus, involving extensive communication activity. Admission to course and amount of credit determined by the faculty supervisor. Pass/No Pass.

COMM 480 Senior Capstone: Ethical and Spiritual Dimensions of Communication
3 hours. Designed to integrate skills and concepts from communication course work with ethical and spiritual principles through readings, written assignments, and assessment instruments. Students will complete portfolios that will include work samples and department exit exams along with a statement of what it means to be a Christian communicator. A service component may be included as part of the course. (Identical to JOUR 480 and WRIT 480)

COMM 485 Selected Topics
3 hours. A variety of topics may be offered that reflect the interests of faculty, visiting professors, and students.

COMM 495 Special Study
1-3 hours. Individualized study related to the student's needs and interests. Open to exceptional students at the discretion of a faculty member.

CSIS (Computer and Information Science)
Computer and Information Science

CSIS 130 Web-Based Programming
3 hours. An introduction to computer programming using HTML and JavaScript. The emphasis of the course is placed on fundamental concepts of computer programming through the creation of interactive Web pages. The course is designed for students who want to learn more about the World Wide Web and its applications.

CSIS 201 Introduction to Computer Science I
3 hours. A foundational course for the study of computer and information science. The course covers an overview of programming methodology and gives the student an ability to write computer programs using standard style and structure. Programming projects are completed in one or more high-level languages.
Prerequisite: high school algebra or equivalent.

CSIS 202 Introduction to Computer Science II
3 hours. A foundational course for the study of computer and information science. The course covers an overview of programming methodology and gives the student an ability to write computer programs using standard style and structure. Programming projects are completed in one or more high-level languages.

Prerequisite: CSIS 201 Introduction to Computer Science I.

CSIS 220 Digital Logic Design
4 hours. Introduction to digital systems and binary codes, Boolean algebra and digital logic devices, combinational logic circuits and design methods, ROM and RAM memory elements, sequential logic circuits, and design methods. Laboratory experience includes TTL logic circuits, and CAD tools. Three lectures and one laboratory per week. (Identical to ENGE 220.)
Prerequisite: ENGR 152 Engineering Principles II or CSIS 201 Introduction to Computer Science I or equivalent.

CSIS 275 Field Experience
1-3 hours. Supervised experience with an off-campus industry, business, or institution, using computer science or data processing.
Prerequisite: upper-division computer information science majors.

CSIS 285 Selected Topics
1-10 hours. A scheduled class with topics chosen to meet the special needs and interests of students, faculty, or visiting professors.
Prerequisite: upper-division computer information science majors.

CSIS 300 Numerical Methods
3 hours. A study of numerical solutions of mathematical problems, including nonlinear equations, systems of linear equations, polynomial approximations, root finding, integration, and differential equations. Computer programs are written to solve these problems. (Identical to MATH 300.)
Prerequisites: MATH 202 Calculus II and either CSIS 201 Introduction to Computer Science I or ENGR 152 Engineering Principles II.

CSIS 310 Data Structures and File Processing
3 hours. An introduction to the concepts of information organization, methods of representing information both internally and externally. The course begins with basic structures (stacks, queues, linked lists, and trees) and moves through more complex data structures into the processing of files (sequential, relative, indexed sequential, and others). Programming projects are completed in one or more high-level languages.
Prerequisites: CSIS 201 Introduction to Computer Science I and CSIS 202 Introduction to Computer Science II.

CSIS 314 Client-Server Systems
3 hours. This course provides an introduction to constructing complete information systems based on the client-server model. On the client side, we introduce graphical user-interfaces, their design and implementation, as well as commonly used tools such as database access clients, and report generators. On the server side, we introduce database management systems and the use of server-side programming tools that provide connectivity for clients and access to database systems. Along the way, students are introduced to the basics of distributed computing and computer networks.
Prerequisite: CSIS 202 Introduction to Computer Science II.

CSIS 321 Software Engineering
3 hours. An introduction to the strategies used in producing quality software. The life cycle of software development is presented and utilized. Larger projects are undertaken by teams of students in the initial phases.
Prerequisite: CSIS 202 Introduction to Computer Science II.

CSIS 330 Computer Graphics
3 hours. An introduction to the concepts of computer graphics, particularly those used with microcomputers. Basic programming and mathematical tools used in producing graphics are explored and

applied in several projects.
Prerequisites: CSIS 310 Data Structures and File Processing and MATH 190 Precalculus Mathematics.

CSIS 340 Database Systems
3 hours. A study of the organization of database systems for information storage, retrieval, and security. Examples of hierarchic, network, and relational-based systems are presented.
Prerequisite: CSIS 310 Data Structures and File Processing.

CSIS 350 Data Communications and Networks
3 hours. An introduction to the field of communications among computers and computer systems, with an emphasis placed on LANS (Local Area Network Systems) and the OSI model. Students will experience the installation of one or more network systems.
Prerequisite: CSIS 202 Introduction to Computer Science II.

CSIS 360 Computer Architecture and Assembly Language
3 hours. An introduction to digital computer hardware architecture and organization. Topics include digital logic, processor design, instruction sets, and system architecture. Programs written in assembly language will be used to gain hands-on experience with the underlying system architecture.
Prerequisite: CSIS 310 Data Structures and File Processing.

CSIS 370 Object-Oriented Programming
3 hours. This course covers the fundamental concepts of object-oriented programming languages, including data abstraction and typing, class inheritance and generic types, prototypes and delegation, concurrency control and distribution, object-oriented databases, and implementation. Object-oriented solutions will be developed in one or more high-level languages.
Prerequisite: CSIS 310 Data Structures and File Processing.

CSIS 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

CSIS 420 Structures of Programming Languages
3 hours. A study of the basic design of computer programming languages, with the greater emphasis placed on semantics (over syntax). A comparative analysis is made among several of the common languages.
Prerequisite: CSIS 310 Data Structures and File Processing.

CSIS 430 Analysis of Algorithms
3 hours. An introduction to the design and analysis of algorithms. The course covers the fundamentals of analyzing algorithms for correctness and time and space bounds. Topics include advanced sorting and searching methods, graph algorithms, geometric algorithms, matrix manipulations, string and pattern matching, set algorithms, and polynomial computations.
Prerequisite: CSIS 310 Data Structures and File Processing.

CSIS 434 Parallel Computing
3 hours. A theoretical and practical survey of parallel processing, including a discussion of parallel architectures, parallel programming languages, and parallel algorithms. Students will program one or more parallel computers in a higher-level parallel language.
Prerequisite: CSIS 310 Data Structures and File Processing.

CSIS 440 Artificial Intelligence (AI)
3 hours. This course introduces the student to the basic concepts and techniques of artificial intelligence, knowledge representation, problem solving, and AI search techniques. AI solutions will be developed in an appropriate AI language.
Prerequisite: CSIS 310 Data Structures and File Processing.

CSIS 450 Network Administration
3 hours. This course introduces the student to system administration of a LAN. Topics covered include adding and removing users; monitoring and controlling processes; adding, removing, and managing groups; mounting and unmounting filesystems; monitoring and troubleshooting a TCP/IP network; managing and controlling network and system security; and administration of network file systems.
Prerequisite: CSIS 350 Data Communications and Networks.

CSIS 460 Operating Systems
3 hours. A study of the organization and architecture of computer systems. The major principles of operating systems are presented, along with case studies involving actual operating systems.
Prerequisite: CSIS 310 Data Structures and File Processing.

CSIS 471 Senior System Development I
1 hour. In the senior system development sequence, students apply their knowledge and software engineering skills gained through course work to a substantial computer/information science project. In the first semester, projects are defined and necessary background research along with feasibility studies are completed. Students must also consider the ethical, moral, and social impact of their systems. Collaboration with other departments of the university is encouraged.
Prerequisite: at most, three semesters from graduation.

CSIS 472 Senior System Development II
3 hours. The projects that were initiated in the first semester are fully developed and implemented. Use of analysis, design, implementation, and testing techniques are applied throughout the project. The system development sequence culminates in the oral presentations and formal written reports of the projects.
Prerequisite: CSIS 471 Senior System Development I.

CSIS 475 Field Experience
1-3 hours. Supervised experience with an off-campus industry, business, or institution, using computer science or data processing.
Prerequisite: upper-division computer information science majors.

CSIS 480 Principles of Compiler Design
3 hours. This course introduces the student to the basics of building a compiler using a multiphase translation process. It covers lexical analysis, parsing, and translation to abstract syntax using modern parser generator technology. It discusses binding of identifiers and symbol table organization, and a variety of intermediate representations that are suitable for backend analysis. Other topics include type checking, attribute grammar representations, and printing from abstract syntax.
Prerequisite: CSIS 310 Data Structures and File Processing. (CSIS 420 Structures of Programming Languages preferred.)

CSIS 485 Selected Topics
1-10 hours. A scheduled class with topics chosen to meet the special needs and interests of students, faculty, or visiting professors.
Prerequisite: upper-division computer information science majors.

CSIS 490 Applied Software Development
1-3 hours. Special software development projects designed and completed by the student in an area that applies computers. This is an independent-study course and is supervised by staff in both the computer area as well as in the selected area of study.
Prerequisite: upper-division computer information science majors and by permission.

CSIS 495 Special Study
1-3 hours. Individual study in areas of special interest.
Prerequisite: upper-division computer information science majors and by permission.

ECON (Economics)
Economics

Additional courses are listed under Accounting **and** Business**.**

ECON 201 Principles of Microeconomics
3 hours. An introduction to the micro aspects of the social science concerned with the allocation of resources. Consideration is given to the fundamental principles governing production, distribution, consumption, and exchange of wealth. The course studies the behavior of microeconomic units such as individuals, households, firms, and industries. ECON 201 and ECON 202 are complementary courses; however, either course may be taken first.

ECON 202 Principles of Macroeconomics
3 hours. An introduction to the macro aspects of the social science concerned with the allocation of resources. Consideration is given to the fundamental principles of the economy as a whole, dealing with economic data, behavior, and theory at the aggregate level of the economy. The course studies topics such as government spending, taxation, and monetary policies, as well as events and issues in the global economy. ECON 202 and ECON 201 are complementary courses; however, either course may be taken first.

ECON 275 Field Experience
3-6 hours. Supervised experiences in business, financial and research firms, and government agencies.
Prerequisite: upper-division students and by permission.

ECON 285 Selected Topics
2-3 hours. Occasional special courses chosen to fit the interests and needs of students and faculty.

ECON 340 Public Economics
3 hours. An overview of the economic role and impact of government, including topics in public finance, fiscal policy, monetary policy, and the banking system, and the economics of regulation.
Prerequisites: ECON 201 Principles of Microeconomics and ECON 202 Principles of Macroeconomics.

ECON 360 Global Political Economy
3 hours. An integrated view of the world economy, with particular attention to such topics as economic growth, debt crises, the distribution of wealth and income, the relationships between economic and political systems, the economics of peace and war, and environmental issues.
Prerequisite: ECON 201 Principles of Microeconomics or ECON 202 Principles of Macroeconomics.

ECON 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to

various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

ECON 430 Managerial Economics
4 hours. The course will focus on the application of economic theory and quantitative methods to management decision making. Topics include analysis of consumer demand and market structure, pricing practices, production and cost analysis, optimization techniques, forecasting, and risk analysis.
Prerequisites: ECON 201 Principles of Microeconomics, ECON 202 Principles of Macroeconomics, BUSN 240 Statistics for Business and Economics, and senior status.

ECON 460 International Trade and Finance
4 hours. An overview of international economics with attention to international trade, economic cooperation, foreign exchange, international banking, and global financial institutions. Attention is given to trade policies, bilateral and multilateral trade negotiations, the functioning of firms in the international economy, and reform of the global financial architecture. (Identical to INTL 460.)
Prerequisites: ECON 201 Principles of Microeconomics and ECON 202 Principles of Macroeconomics.

ECON 475 Field Experience
3-6 hours. Supervised experiences in business, financial and research firms, and government agencies.
Prerequisite: upper-division students and by permission.

ECON 485 Selected Topics
2-3 hours. Occasional special courses chosen to fit the interests and needs of students and faculty.

ECON 495 Special Study
2-3 hours. Subject matter and credit arranged for the needs of the individual student.
Prerequisite: upper-division students and by permission.

EDUC (Education)
Education

EDUC 240 Perspectives in Education
2 hours. An overview of history and social issues in education and an exploration of teaching as a career. Introduction to the teacher education program at George Fox University. Includes 30 clock hours of field experience. Required for elementary teaching majors and music education majors.
Prerequisite: sophomore or junior status.

EDUC 250 Teaching as a Profession
2 hours. This is a one-semester introductory course on the teaching profession for those planning to enroll in an MAT program. An emphasis will be placed on cultural diversity and reform-related issues from a K-12 perspective. Students will expand their understandings of the field of education and the role of teachers by participating in a 30-hour in-the-classroom field experience, and 10-hour service learning opportunity. The George Fox University MAT program application process and requirements will be discussed. (This course is not part of the undergraduate elementary education major.)
Prerequisite: sophomore or junior status.

EDUC 275 Field Experience
1-2 hours. An elective field placement individually designed with approval of the instructor. Does not substitute for required field assignments; 40 hours fieldwork per credit is required.

EDUC 285 Selected Topics
1-3 hours. A seminar dealing with various topics as announced that represent current faculty interests and competencies.

EDUC 313 Elementary Mathematics Methods
2 hours. Examine and openly challenge knowledge, beliefs, and assumptions about the learning and teaching process. Engage in activities designed to enhance conceptual knowledge of selected topics. Explore what it means to teach mathematics in a standards-based system (i.e., using standards to plan instruction, using scoring guides to assess student work, critically examining curricula).
Prerequisites: MATH 211 &212 Foundations of Elementary Mathematics I &II (8 semester hours or equivalent).

EDUC 321 Early Childhood Education
3 hours. Early childhood distinctives regarding growth, development, and learning, with attention to implications for classroom management and organization, parent involvement, and program operation.
Corequisites: EDUC 342 Inclusion, EDUC 370 Curriculum and Instruction, EDUC 373 Fine Arts Methods, and EDUC 401 Language Arts and Children's Literature. Prerequisite: admission to elementary education major.

EDUC 322 Early Childhood Methods
3 hours. This methods course focuses on the formulation and implementation of developmentally appropriate curriculum, instruction, materials, and assessment for young children, ages 3-8 years. Student facilitators create and implement lesson plans with young children in an integrated curriculum in the content areas of art, health, language arts, math, music, and social studies.
Prerequisite: EDUC 321 Early Childhood Education and admission to Teacher Education Program.

EDUC 334 Health and Physical Education Methods
3 hours. This course examines and offers opportunities to apply health and physical education methods.
Prerequisite: sophomore status and admission to Teacher Education Program.

EDUC 341 Learning Theory
2 hours. A survey of learning theories and possible applications in the elementary classroom are explored.
Corequisite or prerequisite: PSYC 310 Lifespan Human Development or PSYC 311 Child Development. Prerequisite: admission to Teacher Education Program.

EDUC 342 Inclusion
2 hours. A survey of current knowledge about the diverse abilities of learners in the regular classroom, with an emphasis on methods for including students and assisting their learning processes. Attention given to needs of bicultural students with disabilities.

EDUC 351 Middle-Level Education
3 hours. Middle-level distinctives regarding growth, development, and learning, with attention to implications for classroom management and organization.
Prerequisite: permission required.

EDUC 352 Middle-Level Methods
3 hours. Developmentally appropriate methods and materials for facilitating instruction and integration of subject matter fields for middle-level students in both departmentalized and self-contained classroom organizational patterns. Issues of parent involvement and teacher collaboration.
Prerequisite: permission required.

EDUC 370 Curriculum and Instruction

3 hours. Generic methods of teaching, planning curriculum, and both formal and informal assessment of pupil learning as used in teaching. Needs of students from generational poverty are examined.
Prerequisite: admission to Teacher Education Program.

EDUC 373 Fine Arts Methods
2 hours. Using the basic principles and elements of music and art, students will explore making connections between subjects in the elementary curriculum.
Prerequisite: admission to Teacher Education Program.

EDUC 375 Student Teaching I and Classroom Management
2 hours. A laboratory experience consisting of general and specific tasks, managing and instructing pupils and assisting teaching in the classroom. Patterns of classroom management and organized community building will be discussed including responding to needs of the bicultural child. An additional one hour is required for students intending to add the middle-level authorization and is in addition to the two-hour requirement. Please see advisor.

EDUC 376 Student Teaching I for Middle-Level Authorization
1 hour. A laboratory experience consisting of general and specific tasks, managing and instructing pupils and assisting teaching in the classroom.
Prerequisites: EDUC 351 Middle-Level Education, EDUC 352 Middle-Level Methods, and EDUC 375 Student Teaching I and Classroom Management.

EDUC 380 Social Studies Methods
2 hours. Research-based methods for teaching social studies. Issues of cultural proficiency addressed.

EDUC 383 Science Methods
2 hours. Students will study, experience, and practice research-based science pedagogy appropriate to grades K-8 in a self-contained school setting. Activities include writing and research on science education, demonstration of science teaching practice, and supervised teaching experience. Students will develop, critique, and implement science curriculum.

EDUC 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

EDUC 401 Language Arts and Children's Literature
4 hours. Survey of children's literature genre and uses. Methods and materials of language arts teaching in the areas of listening and speaking, and of spelling and handwriting instruction.

EDUC 402 Literacy Methods
4 hours. Methods and materials for language arts teaching in the areas of reading and writing, with an emphasis on the use of children's literature.

EDUC 430 History and Foundations of Literacy Learning
2 hours. Thoughtful classroom practice depends on sound theory. This course examines some current competing theories, looks at the implications of various literacy theories as they impact classroom decision making, and, through reading and discussion, helps develop a personal understanding of literacy processes. The linguistic framework of reading and its place in the language arts will also be explored.

EDUC 431 Analysis of Reading and Writing Assessments
2 hours. Classroom teachers become acquainted with a wide variety of methods for assessing student progress in reading and writing. Administration and scoring of these tests will be explored. Information about how testing results can facilitate teaching and learning is the goal.

EDUC 432 Advanced Strategies in Literacy Instruction: Assessment and Remediation
2 hours. This course focuses on current methods and materials for reading/literacy instruction. The strategies used by proficient readers will be explored and teaching methods will be modeled and implemented. Methods of assessment and strategies for remediation will also be explored.

EDUC 433 Advanced Studies in Children's and Adolescent Literature
2 hours. This course focuses on a critical examination of children's literature as literature, considers curriculum development based on children's literature, and on a further development of a broad understanding of literacy learning issues.

EDUC 434 Issues and Application of Literacy Instruction
2 hours. This course focuses on the issues related to public and school-based concerns about literacy learning. The discussion of issues will lead to research-based applications that can be translated into the classroom practice at the elementary, middle, or high school level.

EDUC 436 Reading and Writing in the Content Areas
2 hours. This course focuses on the reading and writing needs of the student at the middle level and in the high school. The teaching of critical reading and writing strategies will be included as well as assessment tools. This course is required for those pursuing the middle level and high school authorizations of the Reading Endorsement, but is appropriate for teachers of all levels.

EDUC 437 Emergent Literacy
2 hours. This course explores theoretical principles and practices based on current research. Emphasis is on strategies for coming to print, print conventions, and reading aloud. Shared, guided, and independent reading and writing is also explored. These strategies are based on theoretical assumption from the psychology of language and cognition development and linguistics.

EDUC 438 Organization of Reading Programs
3 hours. The content of this course includes: the organization of reading programs within the context of state and federal regulation and within the structure of the school-wide program; the types of testing used to diagnose and monitor student progress; the methods that can be used to involve parents, paraprofessionals, and volunteers; and the methods available to assess program effectiveness. Observations in a variety of school settings will be organized.

EDUC 439 Early Childhood and Elementary Reading Practicum
2 hours. The reading practicum will provide a context in which to apply methods, assessment techniques, and teaching strategies in a school setting. It will also provide opportunity for an observation of a reading program in application. The practicum setting must include assessment, teaching, and evaluation of students at both authorization levels. Pass/No Pass.
Prerequisites: EDUC 430 History and Foundations of Literacy Learning, EDUC 431 Analysis of Reading and Writing Assessments, EDUC 432 Advanced Strategies in Literacy Instruction, EDUC 438 Organization of Reading Programs, or by permission.

EDUC 470 Applied English Linguistics: Oral and Literary
3 hours. Examines the fundamental elements, processes, and patterns of oral and written language for the

teacher of English to speakers of other languages. Topics include phonetics, phonology, sociolinguistics, pragmatics, morphology, orthography and writing conventions, syntax, semantics, and discourse analysis. English is the primary focus of the course, with reference to other languages commonly spoken by students in Oregon classrooms.

EDUC 471 Second Language Acquisition and Development
2 hours. Examines various factors, concepts, and theories about first and second language acquisition processes and their interrelationships. The course also focuses on the application of this knowledge in ESOL classes for maximizing ESOL students' language development and academic achievement.
Prerequisite or concurrent enrollment: EDUC 470 Applied English Linguistics: Oral and Literary.

EDUC 472 Intercultural Communication in the ESOL/Bilingual Context
2 hours. Examines the diverse and dynamic role of culture in the ESOL student's language development and academic achievement. The course also emphasizes the application of this knowledge for instruction and the involvement of community and its resources for maximizing ESOL students' academic achievement.

EDUC 473 Planning and Managing the ESOL/Bilingual Curriculum
3 hours. Examines strategies for planning, managing, and teaching English as a second language and discipline-focused content to ESOL students. Emphasis is placed on curriculum, teaching, and learning approaches that accommodate a diverse population within the classroom. This course also focuses on strategies for collaborating with educators and community members in order to provide comprehensive, challenging educational opportunities for ESOL students.

EDUC 474 Assessing ESOL/Bilingual Student Learning and Language Proficiency
3 hours. Examines principles, issues, and approaches useful for assessing the English competencies of ESOL students. Emphases are placed on developing appropriate assessment tools for the ESOL classroom and on properly interpreting tests that are used for program placement.

EDUC 475 Student Teaching II
12 hours. A full-time laboratory experience in which principles and methods of teaching are applied under supervision of a classroom teacher and college supervisor. Pass/No Pass.

EDUC 478 ESOL/Bilingual Practicum - Early Childhood/Elementary
2 hours. A supervised practicum in an approved early childhood and elementary school demonstrating knowledge and strategies developed in the ESOL/bilingual courses. Candidates set goals for professional growth in the English-language teaching field. Course is offered on a Pass/No Pass basis only.
Prerequisites: successful completion of all required ESOL/bilingual courses (or their equivalent) and approval of the faculty advisor.

EDUC 485 Selected Topics
1-3 hours. A seminar dealing with various topics as announced that represent current faculty interests and competencies.

EDUC 490 Senior Seminar
3 hours. Seminar discussion of current trends and issues in education, as well as job transition and related issues.

EDUC 495 Special Study
1-3 hours. Directed independent study open to upper-division students only. May not be used to substitute for required courses.
Prerequisite: instructor's permission.

ENGC (Engineering, Civil)
Civil Engineering

ENGC 275 Field Experience
1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: instructor's permission.

ENGC 285 Selected Topics
2-4 hours. Occasional special courses chosen to fit the interests and needs of engineering students and faculty. Additional course fee is required.

ENGC 310 Environmental Engineering
3 hours. Fundamental principles of environmental engineering. Topics include life support system, carbon-oxygen cycle, cycling of nitrogen, sulfur, and phosphorus, and the hydrologic cycle. Calculation of pollution potential and treatment system parameters. Concepts of water and wastewater treatment, solid and hazard waste management, and air pollution abatement. Additional course fee is required. *Prerequisites: CHEM 211 General Chemistry and MATH 201 Calculus I.*

ENGC 320 Engineering Surveying
2 hours. Basic principles of land surveying and surveying equipment. Concepts include calculating position on spherical and plane surfaces. Principles of vertical and horizontal measurements in engineering and construction projects. One lecture and one three-hour laboratory per week. Additional course fee is required. *Prerequisite: MATH 190 Precalculus Mathematics*

ENGC 330 Structural Analysis and Design
4 hours. Analysis and design of statically determinate and indeterminate structures; beams, trusses, frames, arches, and cables. Methods include classical, energy, matrix, and computer solutions. Three lectures and one three-hour laboratory per week. Additional course fee is required. *Prerequisites: ENGM 320 Mechanics of Materials.*

ENGC 340 Geotechnical Engineering
4 hours. Basic physical and mechanical properties of soils, including specific gravity, grain size distribution, plasticity, permeability, consolidation, and shear strength. Use of these properties to calculate stresses in a soil mass, lateral earth pressures, bearing capacity, and slope stability. Application of fundamental soil mechanics principles to slope stability, foundations, and retaining structures. Three lectures and one two-hour laboratory per week. Additional course fee is required. *Prerequisites: ENGM 320 Mechanics of Materials.*

ENGC 350 Water Resources Engineering
4 hours. Fundamental concepts of hydrology and its application in engineering applications. Topics include the hydrologic cycle, weather and hydrology, precipitation, evaporation, stream flow hydrographs, hydrologic and hydraulic stream routing, hydrologic measurements, and application of hydrologic models. Three lectures and one two-hour laboratory per week. Additional course fee is required. *Prerequisites: CHEM 211 General Chemistry and ENGM 330 Fluid Mechanics.*

ENGC 370 Transportation Engineering
2 hours. Introduction to planning, design, and operation of transportation systems. Concepts of human

factors and vehicle characteristics in design. Topics include traffic stream variables and their measurement techniques, basic traffic flow models, highway and street intersection capacity and level of service, traffic control concepts, and transportation systems management. Application of statistical analysis on transportation problems. Additional course fee is required. *Prerequisites: ENGM 210 Statics and Dynamics and ENGC 320 Engineering Surveying.*

ENGC 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

ENGC *430 Reinforced Concrete Design*
3 hours. Fundamental principles of reinforced concrete design in accordance with the ACI Building Code. Topics include concrete materials, beams in bending, shear, and torsion, development, anchorage and splicing, serviceability, columns, slabs, frames, and footings. Additional course fee is required. *Prerequisites: ENGC 330 Structural Analysis and Design.*

ENGC 450 Construction Management and Professional Practice
3 hours. Principles and practice of construction engineering and project management. Development of cost estimates and project schedules. Basic construction methods and fundamental construction terminology. Overview of civil engineering professional practice including career paths, ethics and professionalism, project planning, dispute resolution, and effective decision making. Two lectures and one two-hour laboratory per week. Additional course fee is required. *Prerequisites: Senior standing or consent of instructor.*

ENGC 460 Design of Steel Structures
3 hours. Basic principles of structural steel design and analysis. Topics include axial members, beams, bolted and welded connections, composite beams, and structural systems. Emphasis will be on the LRFD Method and AISC Code. Additional course fee is required. *Prerequisites: ENGC 330 Structural Analysis and Design.*

ENGC 475 Field Experience
1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This advanced experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: instructor's permission.

ENGC 485 Selected Topics
2-4 hours. Occasional special courses chosen to fit the interests and needs of engineering students and faculty. Additional course fee is required.

ENGE (Engineering, Electrical)
Electrical Engineering

ENGE 220 Digital Logic Design
4 hours. Introduction to digital systems and binary codes; Boolean algebra and digital logic devices; combinational logic circuits and design methods; ROM and RAM memory elements; sequential logic circuits and design methods. Laboratory experience includes TTL logic circuits and CAD tools. Three lectures and one laboratory per week. Additional course fee is required.(Identical to CSIS 220.)

Prerequisite: ENGR 152 Engineering Principles II or CSIS 201 Introduction to Computer Science I.

ENGE 250 Electrical Circuit Analysis
4 hours. Basic concepts of DC and AC electrical circuits. Voltage-current relationships for circuit elements; Kirchhoff's laws; Thevenin and Norton theorems. Basic transient and sinusoidal steady-state analysis; phasor analysis; frequency response, resonance, and measurement concepts. Applications of the transistor and operational amplifier. Analysis and design aided by PSpice simulation software. Three lectures and one laboratory per week. Additional course fee is required.
Corequisite: MATH 310 Differential Equations with Linear Algebra. Prerequisite: ENGR 152 Engineering Principles II and PHYS 212 General Physics with Calculus II.

ENGE 275 Field Experience
1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: instructor's permission.

ENGE 285 Selected Topics
1-3 hours. An introductory seminar offered on an occasional basis addressing a current topic in the field that is of special interest to students and current faculty.

ENGE 300 C Programming with Applications
3 hours. Introduction to the C programming language as a means to perform low-level access and control of hardware with a high-level language. Custom software applications, portability issues, application of pointers, and introduction to data structures. Applications to engineering problems, including data acquisition and control systems. Additional course fee is required.
Prerequisites: ENGE 220 Digital Logic Design.

ENGE 311 Electronic Devices and Circuits
4 hours. Introduction to the terminal characteristics of active semiconductor devices. Operation and small-signal models of diodes, junction and field-effect transistors, and operational amplifiers. Basic single-stage and multistage amplifiers: gain, biasing, and frequency response. Switching characteristics of transistors in saturation and cutoff. Three lectures and one three-hour laboratory per week. Additional course fee is required.
Prerequisites: ENGE 220 Digital Logic Design and ENGE 250 Electrical Circuit Analysis.

ENGE 312 Applications of Electronic Devices
4 hours. Analog and digital applications of electronic devices: amplifiers, oscillators, filters, modulators, logic circuits, and memory elements. Feedback, stability, and noise considerations. Emphasis on practical design problems and the formulation of design objectives. Three lectures and one three-hour laboratory per week. Additional course fee is required.
Prerequisite: ENGE 311 Electronic Devices and Circuits and ENGE 330 Electrical Signals and Networks.

ENGE 330 Electrical Signals and Networks
4 hours. Fundamental concepts of continuous-time and discrete-time signals and systems. Linear time-invariant systems, the convolution integral, and impulse response. Fourier series and frequency domain analysis. Fourier, Laplace, and z-transform techniques. Principles of feedback, sampling, and modulation. Theoretical and practical aspects of electrical networks. Loop and nodal analysis of multi-port networks. Admittance, impedance, and transmission parameters, matrix solutions. Additional course fee is required.
Prerequisite: ENGE 250 Electrical Circuit Analysis.

ENGE 350 Electrical Network Analysis
3 hours.Theoretical and practical aspects of electrical networks. Loop and nodal analysis of multi-port networks. Admittance, impedance, and transmission parameters; matrix solutions. Butterworth, Chebyshev, and other useful network response functions; network theorems. Synthesis of passive and active networks. Additional course fee is required.
Prerequisite: ENGE 250 Electrical Circuit Analysis.

ENGE 360 Electromagnetic Fields and Waves
3 hours. Theoretical study of static and dynamic electric and magnetic fields. Gauss' law and the static electric field; boundary value problems in electrostatics. Effects of dielectric and magnetic media properties. Magnetostatics; Faraday's law and applications. Maxwell's equations for time-varying fields; wave propagation; Poynting's theorem. Numerical methods and computer simulation tools in electromagnetics are introduced. Additional course fee is required.
Prerequisites: ENGE 250 Electrical Circuit Analysis.

ENGE 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

ENGE 410 Digital System Design
3 hours. Practical aspects of digital design with Hardware Description Languages including the design, construction, and testing of significant digital subsystems. Explorations of advanced digital design concepts such as timing-driven synthesis, integration of intellectual property and design for reuse. Extensive use is made of computer-aided engineering (CAE) tools and Field-Programmable-Gate-Array (FPGA) technology in course assignments. Two lectures and one two-hour laboratory per week. Additional course fee is required.
Prerequisite: ENGE 420 Microprocessors.

ENGE 420 Microprocessors
4 hours. Principles of hardware and software microcomputer interfacing. Microprocessor characteristics, memory peripheral devices, microcomputer structures, and I/O interface device control. Assembly language programming. Design projects involve the construction and programming of a microprocessor-based system. Three lectures and one three-hour laboratory per week. Additional course fee is required.
Prerequisite: ENGE 300 C Programming with Applications and ENGE 311 Electronic Devices and Circuits.

ENGE 430 Communication Systems
3 hours. Introduction to analog and digital communications theory and applications. Topics include encoding, modulation and multiplexing techniques, spectral analysis, transmission line effects, noise analysis and filtering, multiple-channel and fiber optic communications, telecommunication systems, and data communications applications. Additional course fee is required.
Prerequisite: ENGE 330 Electrical Signals and Networks.

ENGE 440 Electric Machines and Power Systems
3 hours. Introduction to electric machines and electric power utility systems. AC and DC rotating machines; single- and three-phase motors and generators; transformers and solid-state devices, power transmission lines, load flow analysis, system faults, and system modeling and design. Includes lab assignments to enhance course theory and to give hands-on experience.
Prerequisites: ENGE 330 Electrical Signals and Networks and ENGE 360 Electromagnetic Fields and Waves.

ENGE 460 Microwave Engineering and Applications
3 hours. Study of microwave circuits, devices, and techniques as applied to cellular communications and other modern systems. Propagation and reflection on ideal and lossy transmission media. Smith chart and S-parameter tools. Strip lines, microstrip and coplanar lines, and cross talk. Analysis and design of microstrip circuits. Introduction to antenna fundamentals. Includes computer and laboratory exercises. Two lectures and one three-hour laboratory per week. Additional course fee is required.
Prerequisites: ENGE 312 Applications of Electronic Devices and ENGE 360 Electromagnetic Fields and Waves.

ENGE 475 Field Experience
1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This advanced experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: instructor's permission.

ENGE 480 Digital Signal Processing
3 hours. Sampling as a modulation process, aliasing, the sampling theorem, the Z-transform and discrete-time system analysis, direct and computer-aided design of recursive and nonrecursive digital filters, the Discrete Fourier Transform (DFT) and Fast Fourier Transform (FFT), digital filtering using the FFT, analog-to-digital and digital-to-analog conversion, effects of quantization and finite-word-length arithmetic. Additional course fee is required.
Prerequisite: ENGE 220 Digital Logic Design and ENGE 330 Electrical Signals and Networks.

ENGE 485 Selected Topics
1-3 hours. An advanced seminar offered on an occasional basis addressing a current topic in the field that is of special interest to students and current faculty.

ENGM (Engineering, Mechanical)
Mechanical Engineering

ENGM 210 Statics and Dynamics
4 hours. A two-part course beginning with rigid bodies in equilibrium. A quantitative description of forces, moments, and couples acting upon engineering structures at rest is developed. The free-body diagram is used extensively to understand the equilibrium of a whole physical system through isolation of each component particle, or body. The second part of the course considers the mathematical description of rigid bodies in motion under the action of forces, moments, and couples. Students learn how to describe the geometry of motion (kinematics) and then move into two- and three-dimensional kinetic analysis. Additional course fee is required.
Prerequisites: ENGR 152 Engineering Principles II, MATH 202 Calculus II and PHYS 211 General Physics with Calculus I.

ENGM 275 Field Experience
1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: instructor's permission.

ENGM 285 Selected Topics
2-4 hours. Occasional special courses chosen to fit the interests and needs of engineering students and faculty. Additional course fee is required.

ENGM 300 Computational Methods
2 hours. Solution to problems in mechanical engineering using numerical techniques. Development of numerical models beginning with physical model analysis, description of appropriate governing equations, selection of critical parameters, choice of solution methodology, and application of numerical solution procedure. Applications selected from a wide variety of topics in mechanical engineering. Solution techniques to include finite difference and finite element methods. Additional course fee is required.
Prerequisites: ENGR 152 Engineering Principles II, MATH 310 Differential Equations with Linear Algebra, and ENGM 320 Mechanics of Materials.

ENGM 311 Engineering Thermodynamics
3 hours. Classical treatment of thermodynamics emphasizing the first and second laws and their application to closed and open (control volume) systems undergoing steady, unsteady, and cyclic processes. Introduction to vapor power systems. Tabular and graphical thermodynamic property data are used in analytical work. Additional course fee is required.
Prerequisite: ENGR 152 Engineering Principles II and PHYS 212 General Physics with Calculus II.

ENGM 312 Applications of Engineering Thermodynamics
3 hours. Advanced topics in the first and second laws of thermodynamics, availability, and irreversibility. Vapor and gas power cycles, mixtures of gases and vapors, introduction to combustion theory, nonreacting and chemically reacting flows. Applications to spark and compression ignition engines, gas and vapor turbines, refrigeration systems, heat exchangers, and psychrometrics. Two lectures and one three-hour laboratory per week. Additional course fee is required.
Prerequisite: ENGM 311 Engineering Thermodynamics.

ENGM 320 Mechanics of Materials
3 hours. Behavior of deformable body systems under combinations of external loading is presented. Analysis of stress, deformation, strain, failure fatigue, and creep are included. Mathematical, graphical, and energy methods are utilized. Additional course fee is required.
Prerequisites: ENGM 210 Statics and Dynamics and ENGR 250 Principles of Materials Science.

ENGM 330 Fluid Mechanics
3 hours. Presentation and development of fundamental concepts of fluids as continua, including velocity and stress fields, and viscosity. Fluid statics, hydrostatic analysis of submerged bodies, and manometry methods. Development of the governing equations of mass, momentum, and energy conservation for fluid motion using both integral and differential techniques. Incompressible inviscid flow, dimensional analysis and similitude, and flow in pipes and ducts. Boundary-layer concepts. Additional course fee is required.
Prerequisites: ENGM 311 Engineering Thermodynamics and MATH 310 Differential Equations with Linear Algebra.

ENGM 350 Machine Dynamics and Vibrations
3 hours. Kinematic and dynamic analysis of basic mechanisms with an introduction to kinematic synthesis. Fundamentals of vibration theory and their application to lumped parameter systems. Both single- and multi-degree of freedom systems having steady-state and transient responses are considered. Concepts of machine dynamics and design are supplemented with mathematical, graphical, and computer techniques and analysis. Applications using dynamic analysis software are included. Additional course fee is required.
Prerequisites: ENGM 210 Statics and Dynamics and MATH 310 Differential Equations with Linear Algebra.

ENGM 380 Heat Transfer
4 hours. Fundamental aspects of steady-state and transient heat transfer by conduction, convection, and radiative transport modes. Analytical and semi-empirical methods of forced and natural convection systems. Conjugate analysis of multi-mode problems using numerical methods is presented. Heat exchanger design,

boiling, and condensation are also included. Three lectures and one three-hour laboratory per week. Additional course fee is required.
Corequisite: ENGM 300 Computational Methods. Prerequisite: ENGM 330 Fluid Mechanics.

ENGM 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

ENGM 400 Mechanical Engineering Design
4 hours. Fundamental principles for the synthesis, analysis, and design of mechanical elements and systems. The use of statics, dynamics, mechanics of materials, and failure theories to evaluate mechanical systems under static and dynamic loading. Application of design techniques to specific mechanical components such as gears, springs, shafts, bearings, and fasteners, with an emphasis on design for manufacturability. Computer modeling tools including finite element analysis are utilized. Three lectures and one three-hour laboratory per week. Additional course fee is required.
Prerequisites: ENGM 320 Mechanics of Materials and ENGM 350 Machine Dynamics and Vibrations. Corequisite: ENGM 300 Computational Methods.

ENGM 410 Materials and Processes in Manufacturing
3 hours. Mechanical and metallurgical fundamentals of cutting operations, metal forming by deformation, material fabrication, and nontraditional processing. Manufacturing systems, concepts in production, green design, and design for manufacturability (DFM). Special emphasis on silicon crystal growth methods and silicon wafer fabrication processes. Additional course fee is required.
Prerequisite: ENGM 400 Mechanical Engineering Design.

ENGM 430 Acoustics and Noise Control
3 hours. Theory and practice in the analysis and measurement of sound and vibration as applied to noise control. Basic concepts of vibration and acoustic theory are developed, and a variety of sound and vibration measuring equipment is used in laboratory experiments. Practical aspects of noise control as applied to products, machinery, buildings, vehicles, and other systems. Topics include sound propagation; sound in small and large enclosures, and design of enclosures, ducts, and mufflers; isolation and damping.
Prerequisites: ENGM 330 Fluid Mechanics and ENGM 350 Machine Dynamics and Vibrations.

ENGM 450 Vehicle Systems Dynamics
3 hours. Several different vehicle systems (automotive, truck, railway freight vehicles, and passenger transport systems) are described analytically from road/track to passenger/load. Topics include tire/wheel construction and modeling, contact mechanics, suspension design, power transmission, steering mechanisms, braking, vibratory causes/effects, and safety requirements. Vehicle system modeling with ADAMS (ADAMS/Car and ADAMS/Rail) computational dynamic analysis software is introduced.
Prerequisite: ENGM 400 Mechanical Engineering Design.

ENGM 470 Energy Systems Engineering
3 hours. Fundamental principles of energy engineering with applications to both fossil fuel combustion and alternative energy systems. The first half of the course is dedicated to a quantitative understanding of fossil fuel combustion and its applications. Stoichiometry, flame temperature, chemical kinetics and applications of both premixed and diffusion flames, as well as sources of emissions and emission control strategies are presented. The second half of the course is focused on alternative and renewable energy systems, from a technical, economic, and environmental perspective. Students will study the basic theory of fuel cells, wind

turbines, photovoltaic devices, biomass and nuclear energy generation and determine component and system efficiencies. Additionally, students will become familiar with the relationship between ethical issues and the quality of our environment, and the complex interplay between engineering systems and society. This course builds on previous studies in thermodynamics, fluid mechanics and heat transfer. Additional course fee is required.
Prerequisites: ENGM 312 Applications of Engineering Thermodynamics and ENGM 380 Heat Transfer.

ENGM 475 Field Experience
1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This advanced experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: instructor's permission.

ENGM 480 Control Systems Engineering
3 hours. This course covers various aspects of control system engineering including dynamic system modeling, control system stability and performance analysis. Special attention is given to compensator design by PID and lead-lag algorithms. Principles of closed loop mechanical, electrical, hydraulic, pneumatic, and thermodynamic systems are considered. Laboratory experiments include both MATLAB simulations and PLC programming with applications. Two lectures and one laboratory per week. Additional course fee is required.
Prerequisite: MATH 310 Differential Equations with Linear Algebra.

ENGM 485 Selected Topics
2-4 hours. Occasional special courses chosen to fit the interests and needs of engineering students and faculty. Additional course fee is required.

ENGR (Engineering, General)
General Engineering

ENGR 151 Engineering Principles I
3 hours. Introduction to the concepts and methods of engineering problem solving and design. Topics include the following: analysis and design methodologies, structured computer programming, basic principles of engineering graphics, the visualization and modeling of real-world systems, and an introduction to the history and ethics of the engineering profession. Computer-aided-design (CAD) tools, solid modeling and simulation software, and mathematics software applications are presented. Students work on numerous team design projects, communicating their results through oral and written reports. Meets twice weekly in a lecture/lab environment. Additional course fee is required.
Prerequisite: MATH 190 Precalculus Mathematics or equivalent.

ENGR 152 Engineering Principles II
3 hours. Introduction to the concepts and methods of engineering problem solving and design. Topics include the following: analysis and design methodologies, structured computer programming, basic principles of engineering graphics, the visualization and modeling of real-world systems, and an introduction to the history and ethics of the engineering profession. Computer-aided-design (CAD) tools, solid modeling and simulation software, and mathematics software applications are presented. Students work on numerous team design projects, communicating their results through oral and written reports. Meets twice weekly in a lecture/lab environment. Additional course fee is required.
Prerequisite: ENGR 151 Engineering Principles I.

ENGR 250 Principles of Materials Science

3 hours. The science underlying the behavior of engineering materials, including the relation between atomic structure and mechanical, electrical, and magnetic properties in metals, ceramics, polymers, composite materials, and semiconductors. Phase diagrams, heat treatment, and corrosion mechanisms are also presented. Laboratory exercises are included to enhance course theory and to provide hands-on experience with materials measurement apparatus and analysis techniques. Two lectures and one laboratory per week. Additional course fee is required.
Prerequisites: CHEM 211 General Chemistry I, ENGR 152 Engineering Principles II, and PHYS 212 General Physics with Calculus II.

ENGR 275 Engineering Internship Experience
1-4 hours. Supervised experience with an off-campus industry, business, or institution where the student is working in some engineering-related discipline. Admission and credit hours determined by instructor.

ENGR 285 Selected Topics
2-4 hours. Occasional special courses chosen to fit the interests and needs of engineering students and faculty. Additional course fee is required.

ENGR 351 Servant Engineering I
1 hour. In the servant engineering sequence, students apply their knowledge and design skills gained through course work to a variety of service engineering projects. Students will work in conjunction with industry partners to develop significant engineering solutions solely for the purpose of serving others. Some of these projects might be minor and require a semester or less to complete. Some projects might be quite extensive and take multiple years and multiple subprojects to complete. Every project will be an opportunity to use the gifts that God has given us to serve others. Additional course fee is required.
Prerequisite: ENGR 152 Engineering Principles II.

ENGR 352 Servant Engineering II
1 hour. In the servant engineering sequence, students apply their knowledge and design skills gained through course work to a variety of service engineering projects. Students will work in conjunction with industry partners to develop significant engineering solutions solely for the purpose of serving others. Some of these projects might be minor and require a semester or less to complete. Some projects might be quite extensive and take multiple years and multiple subprojects to complete. Every project will be an opportunity to use the gifts that God has given us to serve others. Additional course fee is required.
Prerequisite: ENGR 351 Servant Engineering I.

ENGR 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

ENGR 451 Servant Engineering III
1 hour. In the servant engineering sequence, students apply their knowledge and design skills gained through course work to a variety of service engineering projects. Students will work in conjunction with industry partners to develop significant engineering solutions solely for the purpose of serving others. Some of these projects might be minor and require a semester or less to complete. Some projects might be quite extensive and take multiple years and multiple subprojects to complete. Every project will be an opportunity to use the gifts that God has given us to serve others. Additional course fee is required.
Prerequisite: ENGR 352 Servant Engineering II.

ENGR 452 Servant Engineering IV
1 hour. In the servant engineering sequence, students apply their knowledge and design skills gained through course work to a variety of service engineering projects. Students will work in conjunction with industry partners to develop significant engineering solutions solely for the purpose of serving others. Some of these projects might be minor and require a semester or less to complete. Some projects might be quite extensive and take multiple years and multiple subprojects to complete. Every project will be an opportunity to use the gifts that God has given us to serve others. Additional course fee is required.
Prerequisite: ENGR 451 Servant Engineering III.

ENGR 475 Engineering Internship Experience
1-4 hours. Supervised experience with an off-campus industry, business, or institution where the student is working in some engineering-related discipline. Admission and credit hours determined by instructor.

ENGR 481 Senior Design I
1 hour. In the senior design sequence, students apply their knowledge and design skills gained through course work to an industry-based project. In the first semester, interdisciplinary teams are formed to begin projects in conjunction with participating industrial sponsors. Necessary background research and feasibility studies are completed. Students must also consider the ethical, moral, environmental, and social impact of their designs. Collaboration with other departments of the university is encouraged. Additional course fee is required.
Prerequisite: senior status in the engineering major.

ENGR 482 Senior Design II
3 hours. The projects that were initiated in the first semester are further developed through simulation, prototyping, and testing. Use of analytic, computer, experimental, and design techniques is applied throughout the project. The design sequence culminates in the construction of the projects, oral presentations, and formal written reports. Additional course fee is required.
Prerequisite: ENGR 481 Senior Design I.

ENGR 485 Selected Topics
2-4 hours. Occasional special courses chosen to fit the interests and needs of engineering students and faculty. Additional course fee is required.

ENGR 490 Senior Seminar
1 hour. A capstone course for the engineering major. Discussion of current trends and issues in the engineering profession. Features invited speakers from the industrial sector. Additional course fee is required.
Prerequisite: senior status in the engineering major or by permission.

ESLA (English as a Second Language)
English as a Second Language

ESLA 005 Conversation Tutorial
1 hour. Each student is paired with an American student for conversation, orientation to life in a new culture, and optional academic tutoring. Pass/No Pass.
Level A (Beginning/Low Intermediate)

ESLA 050 Reading
4 hours. A course designed to teach basic reading skills and vocabulary.

ESLA 060 Writing and Grammar
4 hours. An introduction to the fundamental structure and vocabulary of the English language, focusing on the development of writing skills.

ESLA 070 ESL Freshman Experience
2 hours. An introduction to life at George Fox University. Through various group activities, beginning/low intermediate-level students learn about life on campus, Christianity and chapel, study skills, and use of library resources. Students explore aspects of American culture and Oregon geography and history in food labs, field trips, and group projects. This course provides many opportunities for students to use English in communication and to practice language skills consistent with their level. Pass/No Pass.

ESLA 080 Speaking and Listening
4 hours. A course designed to introduce and develop basic academic speaking and listening skills, with emphasis on conversation, discussion, and short speeches. Vocabulary, pronunciation, grammar, and cultural issues are addressed within the context of a variety of discussion topics. Listening laboratory is required.

ESLA 090 English by Video
2 hours. Offered spring semester. A practical course in which students develop English skills through reading, writing, speaking, and listening based on various types of videos.

Level B (Intermediate)

ESLA 150 Academic Reading
4 hours. This course concentrates on improving students' reading fluency through extensive reading of fiction and nonfiction books and systematic development of vocabulary, reading speed, and study skills. Reading lab and vocabulary lab are required.

ESLA 160 Writing and Grammar
4 hours. In this course, students develop fluency and clarity in expressive and narrative writing and in academic writing assignments, including a research paper. Students develop composing, revising, and editing skills in a workshop atmosphere. Grammar and usage, punctuation, spelling, and format are addressed during the editing process. A major goal is to improve keyboarding and word-processing skills.

ESLA 170 ESLA Freshman Experience
2 hours. An introduction to life at George Fox University. Through various group activities, intermediate-level students learn about life on campus, Christianity and chapel, study skills, and use of library resources. Students explore aspects of American culture and Oregon geography and history in food labs, field trips, and group projects. This course provides many opportunities for students to use English in communication and to practice skills consistent with their level. Pass/No Pass.

ESLA 180 Speech, Listening, and Note-taking
4 hours. This course provides training and practice in academic speaking and listening. Students give various types of formal speeches and learn strategies for taking accurate and comprehensive notes from academic lectures.

ESLA 190 Introduction to Christianity
2 hours. Through video, readings, and class discussion, students are introduced to the life of Christ and the foundations of Christianity. This course also provides a context for practice of English listening, reading, speaking, and writing skills.

Level C (Advanced)

ESLA 240 Adjunct Listening
3 hours. This course cultivates skills of listening and note-taking in academic lectures, including identifying main ideas and distinguishing supporting information, understanding relationships among ideas, and taking notes that reflect this understanding. Assignments are based on lectures from the general education course in which students are concurrently enrolled. Video lab and group tutorial are required.

ESLA 250 Adjunct Reading
3 hours. An intensive course to improve academic reading skills, including vocabulary, reading speed, reading strategies, and test taking. Assignments are based on class texts from the general education course in which students are concurrently enrolled. Reading lab and vocabulary lab are required.

ESLA 260 Academic Writing
5 hours. This course provides instruction and practice in the types of writing commonly found in college courses, including the research paper, essays and essay exams, and reaction papers. Process, organization, and mechanics are emphasized. Principles of advanced English grammar and usage are applied in writing assignments.

ESLA 280 Speech
3 hours. A practical course to help students improve their academic speaking skills, with emphasis on formal speeches, group presentations, small-group interaction, and pronunciation.

Transition

ESLA 285 Selected Topics
3 hours. Occasional special courses chosen to fit the needs and interests of students interested in teaching English as a second language.

ESLA 295 Writing Tutorial
1 hour. Students in their first semester after completing the ELI and new students who score between 500 and 550 on the paper-based TOEFL, between 173 and 213 on the computer-based TOEFL, or between 61 and 79 on the Internet-based TOEFL meet individually with a faculty member to improve their ability to write in English and to develop more effective study strategies. Pass/No Pass.

ESLA 485 Selected Topics
3 hours. Occasional special courses chosen to fit the needs and interests of students interested in teaching English as a second language.

FCSC (Family and Consumer Sciences)
Family and Consumer Sciences

FCSC 120 Apparel Construction
3 hours. Application of basic construction and fitting techniques to produce high-quality garments, properly fitted, and aesthetically pleasing. The principles of fabric selection, the use and alteration of commercial patterns, and the use of the sewing machine, serger, and other sewing equipment are emphasized. Laboratory class. Open to all students. Additional course fee is required.

FCSC 211 Foods I
3 hours each semester. This food science course examines the physical properties of food. Fall semester

emphasizes the biological and chemical factors affecting plant and protein foods. Laboratory experience encourages food product experimentation and the development of culinary skills. Additional course fee is required.

FCSC 212 Foods II
3 hours each semester. This food science course examines the physical properties of food. Spring semester focuses on the properties of grain (baked goods) and dairy products. Laboratory experience encourages food product experimentation and the development of culinary skills. Additional course fee is required.
Prerequisite: FCSC 211 Foods I.

FCSC 220 Fashion and Society
2 hours. A survey of the nature, symbolism, and process of fashion. Course will emphasize the cultural, sociological, psychological, economic, and aesthetic influences of fashion.

FCSC 230 Textiles Science
3 hours. Survey of the sources and properties of natural and manmade fibers, yarn and fabric construction, and finishes. Emphasis on fabric selection, use, and care; labeling legislation and economics; and the consumer's role in influencing textile and clothing legislation. Laboratory experience included.

FCSC 275 Field Experience
1-4 hours. The student will engage in a career-related experience within their area of concentration.
Prerequisite: instructor's permission.

FCSC 285 Selected Topics
1-4 hours. Topics reflecting the special interest of students and faculty. Additional course fee may be required.

FCSC 290 Meal Management
2 hours. The planning, purchase, preparation, and service of foods. Emphasis on time, energy, and money management, along with the nutritional needs of individuals and families. Laboratory included.
Prerequisites: FCSC 211 Foods I and FCSC 212 Foods II, or instructor's permission.

FCSC 300 Nutrition
3 hours. A study of nutrients present in food and their relation to the nutritive needs of the human body. Emphasis on the young adult, along with discussion of contemporary nutrition-related topics of national and global concern. Computer-assisted dietary analysis included. (Identical to HLTH 300.)

FCSC 310 Food, Culture, and Society
3 hours. A study of the food habits characteristic of our world's great civilizations. Emphasis on the investigation of global foodways through historical, social, and religious perspectives. Weekly laboratory provides opportunity to prepare foods from cultures studied. Additional course fee is required.

FCSC 311 Child Development
3 hours. A study of physical, intellectual, personality, social, and moral development from the prenatal period through late childhood. (Identical to PSYC 311.)
Prerequisite: PSYC 150 General Psychology.

FCSC 320 Fashion Merchandising
3 hours. An introduction to the merchandising and retailing principles within the fashion industry. Managing merchandise inventory through planning, procurement, and promotion. Emphasis on buying, forecasting, inventory control, and visual merchandising. The analysis of the marketing channel and the product/service

mix will also be covered.

FCSC 323 Sociology of Families
3 hours. A study of marriage and the family from a sociological perspective, including historical, cross-cultural, and economic backgrounds. A Christian faith perspective will emphasize the worth of people, the importance of the family as a place of nurture, and the gift of marriage. (Identical to SOCI 323 and HLTH 323.)

FCSC 330 Residential Architecture
2 hours. A study of housing trends, building systems, and historical housing. Emphasis on the psychological, social, and economic needs of various family types. Site selection, planning, and construction of housing emphasized. Includes a section on historical housing. Additional course fee is required.

FCSC 344 Quantity Food Production and Management
3 hours. Quantity food production principles for the successful organization and management of an effective, operative food service. Surveys administrative responsibilities, menu planning, preparing food to specific standards, cost controls, and nutritional value. Includes a laboratory experience focusing on quality control, finances, and computer assistance.
Prerequisite: FCSC 211 Foods I.

FCSC 350 Resource Management
2 hours. A study of resource allocation (time, money, energy) and its relationship to attainment of desired values, goals, and standards. Emphasis is placed on the application of management principles individually and within the family.

FCSC 351 Interior Design I
3 hours. Application of the elements and principles of design in planning and selecting materials and furnishings for the living environment. Emphasis on space planning, green design, and universal design by creating functional and aesthetically pleasing residential designs. Includes a section on historical furniture. Additional course fee is required.

FCSC 352 Interior Design II
2 hours. Emphasis on the business knowledge and professional skills needed for a career in interior design, both private and professional. Emphasis on working with clients and development of a portfolio project.
Prerequisite: FCSC 351 Interior Design I or instructor's permission.

FCSC 353 Interior CAD
3 hours. An introduction to computer-aided-design applications using drafting techniques for interior design. Emphasis placed on space-planning principles.
Prerequisite: FCSC 351 Interior Design I or instructor's permission.

FCSC 354 Kitchen and Bath Planning
3 hours. A study of residential kitchen and bath design with focus on appliances, fixtures, construction methods, cabinets, surface materials, and graphics. Students will produce detailed hand drafted floor plans in accordance with NKBA guidelines. Course will include an introduction to perspective drawing in relation to kitchen and bath spaces.
Prerequisite: FCSC 351 Interior Design I.

FCSC 360 Consumer Buying
3 hours. Examination of the consumer as an active agent in the marketplace. Course defines contemporary consumption patterns and uses the decision-making process to familiarize the consumer with appropriate

resource allocation to attain desired goals.

FCSC 370 Pattern Drafting and Apparel Design
3 hours. A study of the flat-pattern method of garment design. Each student will use advanced fitting principles to produce a basic fit garment and a personal sloper. The sloper will be used in the production of an original design using flat-pattern techniques. Included in the process is construction of the original design in half-scale and full-scale. Additional course fee is required.
Prerequisite: FCSC 120 Apparel Construction.

FCSC 378 Apparel CAD
3 hours. Emphasis on clothing design by use of draping techniques. Course includes introductory unit focusing on computer-aided-design processes. Each student will complete an original design in half-scale using draping techniques. Additional course fee is required.
Prerequisite: FCSC 120 Apparel Construction.

FCSC 380 Evolution of World Dress
3 hours. Important events in history, combined with values, technology, and conflict, have influenced dress from 3000 B.C. to the early 1900s. The origins of dress are analyzed from the ancient world to the Middle Ages, to the periods identified as Renaissance, Baroque, and Rococo, and terminating with clothing styles from the early 20th century.

FCSC 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

FCSC 430 Nutrition and the Life Cycle
3 hours. Survey of human nutrition science and contemporary issues affecting stages of the life cycle, from conception to the aging adult. Emphasis on the role diet plays in the development and treatment of chronic disease.
Prerequisite: FCSC 300 Nutrition or HLTH 300 Nutrition, or instructor's permission.

FCSC 460 Apparel Market Analysis
3 hours. Students will examine the role that the textile and apparel industry plays within a global context. Exploring the influence of the interconnective global structures for facilitating and managing textile and apparel trade.

FCSC 475 Field Experience
1-4 hours. The student will engage in a career-related experience within his or her area of concentration.
Prerequisite: instructor's permission.

FCSC 485 Special Topics
1-4 hours. Topics reflecting the special interest of students and faculty. Additional course fee may be required.

FCSC 490 Senior Seminar
3 hours. Emphasis placed on careers in family and consumer sciences, including graduate school exploration and market readiness skills. The student will design, plan, and present a senior capstone project.
Prerequisite: senior status.

FREN (French)
French

Note: Placement testing is generally required of all students prior to registration for their first French course at George Fox University. Placement tests are typically administered during orientation or by appointment with the instructor.

FREN 101 Introductory French I
4 hours. An integrated introductory study of the French language designed to develop basic speaking, listening, reading, and writing skills. Students will also be introduced to the cultures of the francophone world. Our three 65-minute class sessions per week include lab time.

FREN 102 Introductory French II
4 hours. An integrated introductory study of the French language designed to develop basic speaking, listening, reading, and writing skills. Students will also be introduced to the cultures of the francophone world. At the end of FREN 102, students should have novice high proficiency as defined by the American Council of the Teaching of Foreign Languages (ACTFL). Our three 65-minute class sessions per week include lab time. *Prerequisite: FREN 101 Introductory French I or placement by exam.*

FREN 201 Intermediate French I
4 hours. A systematic approach to the study of French with extensive practice in speaking and writing. Three class sessions and one laboratory per week.
Prerequisite: FREN 102 Introductory French II or placement by exam.

FREN 202 Intermediate French II
4 hours. A systematic approach to the study of French with extensive practice in speaking and writing. At the end of FREN 202, students should have intermediate mid proficiency as defined by ACTFL. Three class sessions and one laboratory per week.
Prerequisite: FREN 201 Intermediate French I or placement by exam.

FREN 275 Field Experience
1-10 hours. Supervised experience in a situation demanding extensive use of French. Admission and credit hours determined by instructor.

FREN 285 Selected Topics
2-4 hours. Occasional special courses chosen to fit the needs and interests of students and faculty.

FREN 295 Special Study
1-4 hours. Individual study under the guidance of a faculty member, as determined by student needs and faculty availability.
Prerequisite: instructor's permission.

FREN 301 Intermediate/Advanced French I
4 hours. A thorough review of French to develop an intermediate proficiency in the language. Activities include reading authentic texts, writing short essays, and developing conversational skills. A thorough review of French to develop an intermediate high proficiency, as defined by ACTFL. Three class sessions and one laboratory per week.
Prerequisite: FREN 202 Intermediate French II or placement by exam.

FREN 302 Intermediate/Advanced French II

4 hours. A thorough review of French to develop an intermediate proficiency in the language. Activities include reading authentic texts, writing short essays, and developing conversational skills. A thorough review of French to develop an intermediate high proficiency, as defined by ACTFL. Three class sessions and one laboratory per week.
Prerequisite: FREN 301 Intermediate/Advanced French I or placement by exam.

FREN 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

FREN 475 Field Experience
1-10 hours. Supervised experience in a situation demanding extensive use of French. Admission and credit hours determined by instructor.

FREN 485 Selected Topics
2-4 hours. Occasional special courses chosen to fit the needs and interests of students and faculty.

FREN 490 Study Abroad
12-16 hours. A one-semester overseas experience. Students take university courses while living abroad in a French-speaking country. All programs of study subject to the approval of the French faculty and the director of overseas study.
Prerequisite: application, completion of FREN 302 Intermediate/Advance French II, and junior status or above.

FREN 495 Special Study
1-4 hours. Individual study under the guidance of a faculty member, as determined by student needs and faculty availability.
Prerequisite: instructor's permission.

GEED (General Education)
General Education

The following list includes both required general education courses and interdisciplinary elective courses that serve particular purposes.

GEED 100 Effective College Learner
1 hour. A course related to the Academic Success Program through which personal confidence is enhanced by instruction in study skills, methods, and tools used by successful college students. It may be taken during the spring semester by students not in the Academic Success Program.

GEED 130 First Year Seminar
1 hour. Members of the entire entering freshman class select a small seminar-style topical course for the first five weeks of their first semester, meeting weekly with an advisor and a returning student peer advisor. Selected topics and issues introduce students comfortably to the academic and social life of the university community. Required of all first-time freshmen. Pass/Fail.

GEED 170 Freshman Honors Seminar
1 hour. Members of the entering freshman class who are invited to apply for honors at admission, and whose applications are accepted, take this seminar in the middle five weeks of fall semester. Students are

introduced to the interdisciplinary pursuit of knowledge at the university level, examining a current public issue from a wide variety of disciplinary perspectives, using creative class activities and assignments. Students who earn an excellent rating are eligible to continue in the University Scholars program.
Prerequisite: admission as an incoming freshman to the University Scholars program.

GEED 214 Claim Your Career Calling
1 hour. Offered online fall and spring. This course will cover learning about oneself: life mission, work skills, values, interests, and personality. Educational and occupational opportunities will be examined in light of this self-assessment, which will lead to selecting a major. Use of career assessment tools, career computer system, standard career references, major research, and introduction to work-related experiences will be the sources of information in these tasks. The meaning of work and career decision making will be addressed from the biblical perspective.
Prerequisite: freshman or sophomore status.

GEED 216 Become Workplace Familiar
1 hour. Offered online fall and spring. This course will focus on additional exploration of occupations through information interviews, internships, company tours, job shadowing, and professional organizations. Exposure to the workplace and readiness for graduate school admission are the primary objectives. The course will also address the need to bring clarity and definition to the career decision. The meaning of work and career decision making will be explored from the biblical perspective.
Prerequisite: sophomore or junior status.

GEED 218 Find Suitable Employment
1 hour. Offered online fall and spring. This course will focus on honing skills needed to find employment - contemporary resumÃ© writing, interviewing, strategizing a job search, networking, and completing a portfolio. Making employer contacts, transitioning successfully into the professional work force with an understanding of the market, and learning to solve future career problems will be emphasized. The meaning of work and career decision making will be discussed from the biblical perspective.
Prerequisite: junior or senior status.

GEED 271 Honors Colloquium I
1 hour. Investigation of a variety of issues and subjects from a broad interdisciplinary perspective, through readings, discussions, creative activities, excursions, and written projects. Typically team-taught by faculty from different disciplines, over the course of a year the student uses the methods and frames of reference of nearly every discipline in the liberal arts curriculum to learn about several engaging topics. Class activities are designed to prepare students to do interdisciplinary University Scholars projects during their junior year.
Prerequisite: admission to the University Scholars program and at least sophomore status.

GEED 272 Honors Colloquium II
1 hour. Investigation of a variety of issues and subjects from a broad interdisciplinary perspective, through readings, discussions, creative activities, excursions, and written projects. Typically team-taught by faculty from different disciplines, over the course of a year the student uses the methods and frames of reference of nearly every discipline in the liberal arts curriculum to learn about several engaging topics. Class activities are designed to prepare students to do interdisciplinary University Scholars projects during their junior year.
Prerequisite: GEED 271 Honors Colloquium I, admission to the University Scholars program, and at least sophomore status.

GEED 275 Field Experience
*1-3 hours.*Supervised experience in the discipline including internships and practica required for professional

programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: instructor's permission.

GEED 285 Selected Topics
1-3 hours. A variety of topics may be offered to meet the special needs and interests of students, faculty, or visiting professors.

GEED 355 Cross-Cultural Experience - Domestic
3 hours. This course offers a variety of cross-cultural study tours designed to enhance the intercultural awareness of our campus community and to gain appreciation for various cultural perspectives different from the students' own. Each individual course includes in-depth study from a variety of perspectives, such as the fine arts, religion, language, natural or behavioral science, or history. The course includes class meetings followed by travel to various locations throughout the U.S. Students interact with the local culture through informal and formal contacts. (Offered May Term through the Juniors Abroad program. Students must meet the Juniors Abroad eligibility requirements.) Additional course fee is required.

GEED 365 Cross-Cultural Experience - International
3 Hours. This course offers a variety of cross-cultural study tours designed to enhance the intercultural and international awareness of our campus community and to gain appreciation for various cultural perspectives different from the students' own. Each individual course includes in-depth study from a variety of perspectives, such as the fine arts, religion, language, natural or behavioral science, or history. The course includes class meetings followed by travel to various locations throughout the world. Students interact with the local culture through informal and formal contacts. (Offered May Term through the Juniors Abroad program. Students must meet the Juniors Abroad eligibility requirements.) Additional course fee is required.

GEED 371 University Scholars Projects I
1 hour. In conjunction with an upper-division course of the student's choosing, the student proposes a significant interdisciplinary research project. Once approved by the professor of the home course and the USP director, the student completes the project under the supervision of a senior peer mentor, publicly presents the project results, and submits the project to the undergraduate academic journal.
Prerequisites: GEED 271 Honors Colloquium I, GEED 272 Honors Colloquium II, and permission of the USP director.

GEED 372 University Scholars Projects II
1 hour. In conjunction with an upper-division course of the student's choosing, the student proposes a significant interdisciplinary research project. Once approved by the professor of the home course and the USP director, the student completes the project under the supervision of a senior peer mentor, publicly presents the project results, and submits the project to the undergraduate academic journal.
Prerequisites: GEED 371 University Scholars Projects I, and permission of the USP director.

GEED 375 Cultural Field Experience
1-12 hours. Supervised experience in a cultural setting that contributes to the educational goals of the student. Pass/No Pass.
Prerequisites: permission of advisor and the academic dean.

GEED 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.)

Additional course fee is required.

GEED 455 Student-Designed Service Activity
1-2 hours. Completion of a student-designed academically rich interdisciplinary service activity equivalent in scope, effort, and impact to a Public Interest Applied Research project (see GEED 465).
Prerequisites: GEED 371 University Scholars Projects I and GEED 372 University Scholars Projects II.

GEED 465 Public Interest Applied Research
1-2 hours. Completion of a Public Interest Applied Research project under the supervision of the USP director or another faculty member. PIAR projects are connected to real-world problems, are interdisciplinary, normally require two semesters for completion, are typically done in groups of two or more, and are performed in cooperation with at least one organization or group in the off-campus community.
Prerequisites: GEED 371 University Scholars Projects I and GEED 372 University Scholars Projects II and permission of the USP director.

GEED 471 Undergraduate Academic Journal
1 hour. Service on the editorial committee, or as a senior editor, of the *Undergraduate Academic Journal*.
Prerequisites: GEED 371 University Scholars Projects I, GEED 372 University Scholars Projects II, and permission of the USP director.

GEED 472 Undergraduate Academic Journal II
1 hour. Service on the editorial committee, or as a senior editor, of the *Undergraduate Academic Journal*.
Prerequisites: GEED 471 Undergraduate Undergraduate Academic Journal I and permission of the USP director.

GEED 475 Field Experience
1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This advanced experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: instructor's permission.

GEED 485 Selected Topics
1-3 hours. A variety of topics may be offered to meet the special needs and interests of students, faculty, or visiting professors.

GEED 490 Liberal Arts and Critical Issues
3 hours. An advanced liberal arts course integrating the varied strands of general education in a rich capstone integrative common experience. Students will be challenged to develop coherence in a Christian worldview, deepen their understanding of how we know truth about the world around us and our moral duty in it, practice taking an interdisciplinary approach to basic problems of human existence, and develop as potential Christ-like leaders in public issues. Specific topics to be explored vary from semester to semester.

GEOG (Geography)
Geography

GEOG **200 Cultural Geography and Global Relationships**
3 hours. A study of the world's cultural regions developed through the themes of location, human environmental relationships, movement, and regions, with emphasis on the interrelatedness of culture, physical, economic, historical, and political geography in creating the dynamic cultural landscapes existing

today. (Identical to INTL 200.)

GREK (Greek)
Greek

GREK 201 Hellenistic Greek I
4 hours. A beginning course in the Greek of the New Testament, including vocabulary, grammar, declensions, conjugations, and special constructions. The First Epistle of John and various other selections from the New Testament are read.

GREK 202 Hellenistic Greek II
4 hours. A beginning course in the Greek of the New Testament, including vocabulary, grammar, declensions, conjugations, and special constructions. The First Epistle of John and various other selections from the New Testament are read. The second semester may be applied as biblical studies major credit.
Prerequisite: GREK 201 Hellenistic Greek I.

GREK 301 Hellenistic Greek III
4 hours. The continuation of the course in the Greek of the New Testament, including vocabulary, grammar, and special constructions. Emphasis is placed on readings from biblical texts and exegesis of those texts.
Prerequisite: GREK 202 Hellenistic Greek II.

GREK 302 Hellenistic Greek IV
4 hours. The continuation of the course in the Greek of the New Testament, including vocabulary, grammar, and special constructions. Emphasis is placed on readings from biblical texts and exegesis of those texts.
Prerequisite: GREK 301 Hellenistic Greek III.

GRMN (German)
German

GRMN 101 Introductory German I
3 hours. Offered on sufficient demand. A study of the structures of the German language, with practice in listening, speaking, reading, and writing. The cultures of Germany and German-speaking countries are presented as integral aspects of learning the language. Language lab listening and interaction are required.

GRMN 102 Introductory German II
3 hours. Offered on sufficient demand. A study of the structures of the German language, with practice in listening, speaking, reading, and writing. The cultures of Germany and German-speaking countries are presented as integral aspects of learning the language. Language lab listening and interaction are required.
Prerequisite: GRMN 101 Introductory German I.

GRMN 201 Intermediate German I
3 hours. Offered on sufficient demand. A thorough review of German language structures, with extensive practice in reading and speaking. Students read short stories and articles and present oral and written reports. Language lab listening and interaction are required.
Prerequisite: GRMN 102 Introductory German II or two years of high school German or by placement exam.

GRMN 202 Intermediate German II

3 hours. Offered on sufficient demand. A thorough review of German language structures, with extensive practice in reading and speaking. Students read short stories and articles and present oral and written reports. Language lab listening and interaction are required.
Prerequisite: GRMN 201 Intermediate German I or two years of high school German or by placement exam.

GSCI (General Science)
General Science

GSCI 120 Environmental Science
3 hours. This course will introduce the conceptual, interdisciplinary framework of environmental science by examining its physical, biological, and social components. Topics to be considered will include an inventory of the earth's resources, ecological principles, and the responses of systems to anthropogenic stress; population growth; biodiversity and conservation; and environmental sustainability. Two lectures and one laboratory per week.

GSCI 130 Fundamentals of Geology
3 hours. A systematic study of planet earth. The nature and origin of common minerals, rocks, and geologic structures. Topics will include geology of the earth's crust, plate tectonics, the geology of Oregon, ground water contamination, and geologic hazards such as volcanoes, earthquakes, erosion, landslides, and flooding. This course meets general education requirements and requires no previous knowledge of geology. Two lectures, one two-hour laboratory per week, and two day-long field trips.

GSCI 285 Selected Topics
3 hours. A variety of topics may be offered to meet the special needs and interests of students, faculty, or visiting professors.

GSCI 485 Selected Topics
3 hours. A variety of topics may be offered to meet the special needs and interests of students, faculty, or visiting professors.

HEBR (Hebrew)
Hebrew

HEBR 201 Introduction to Biblical Hebrew I
4 hours. The language of ancient Israel as preserved in the Hebrew Bible is encountered inductively through the study of the text of Esther. Students will master basic vocabulary, grammar, and syntax of narrative Hebrew prose.

HEBR 202 Introduction to Biblical Hebrew II
4 hours. The language of ancient Israel as preserved in the Hebrew Bible is encountered inductively through the study of the text of Esther. Students will master basic vocabulary, grammar, and syntax of narrative Hebrew prose. The second semester may be applied as biblical studies major credit.
Prerequisite: HEBR 201 Introduction to Biblical Hebrew I

HEBR 295 Special Study
1-4 hours. Individual study under the guidance of a faculty member, as determined by student needs and faculty availability.
Prerequisite: instructor's permission.

HEBR 495 Special Study
1-4 hours. Individual study under the guidance of a faculty member, as determined by student needs and faculty availability.
Prerequisite: instructor's permission.

HHPA (Health and Human Performance Activities) Human Performance Activities

HHPA 101 Basic Rock Climbing
1 hour. The purpose of this course is to provide basic instruction in rock-climbing techniques. The course will cover belaying, knots, top-roped climbing, rappelling, and basic anchor setup. Students will be exposed to both indoor and outdoor rock climbing. Additional course fee is required.

HHPA 103 Backpacking
1 hour. Students will learn the skills and knowledge necessary to prepare for and enjoy a safe wilderness camping experience. Specific skills include planning and packing for a trip, choosing appropriate equipment and clothing, preparing nutritious foods while in the outdoors, managing risk and appropriately responding in emergencies, reading maps, route finding, using a compass, and using the wilderness responsibly and courteously. Additional course fee is required.

HHPA 104 Bicycle Fitness
1 hour. Each student will have the opportunity for a general education of the use of the bicycle as a tool for recreation, fitness, and a general knowledge of the essential aspects of maintenance and repair.

HHPA 106 Badminton
1 hour. This course is designed to give students knowledge and competency in the areas of skill, rules, etiquette, and strategy in badminton.

HHPA 107 Dance Performance
1 hour. This beginning-to-intermediate class is designed primarily to introduce students to the basic principles and techniques of various forms of dance performance including ballet, jazz, funk, and hip-hop. Students will participate in individual, group, and final class performances. Emphasis will be placed on identifying correct body alignment, improving posture, balance, rhythm, coordination, timing, flexibility, strength, endurance, and choreography.

HHPA 108 Canoeing
1 hour. This course is designed to introduce students to the sport of canoeing and will include instruction designed to assist camping minor students in acquiring the skill and knowledge necessary to conduct teaching sessions in a camp setting. Additional course fee is required.

HHPA 109 Ballroom Dance
1 hour. Instruction in basic to intermediate steps and etiquette in ballroom dance including 6 count and 8 count swing, fox-trot, waltz, and tango.

HHPA 112 Fitness Walking
1 hour. Designed to provide students with an introductory experience, which has the potential to develop into a lifelong health/wellness activity. The student will become familiar with the contributions this regular activity can make toward development of improved fitness and a healthier lifestyle. A regular weekly walking routine and understanding of primary physiological and anatomical principles are significant by-

products of the course.

HHPA 113 Pickleball
1 hour. This course is designed to give students knowledge and competency in the areas of skill, rules, etiquette, and strategy in the game of pickleball.

HHPA 114 Golf/Racquet Games
1 hour. This course is designed to develop the fundamental skills involved in the game of golf and racquet sports and to understand the rules and etiquette of each so as to prepare students to enjoy these games as lifelong activities.

HHPA 119 Racquetball
1 hour. This course is designed to give students knowledge and competency in the areas of skill, rules, etiquette, and strategy in racquetball.

HHPA 120 Lifelong Fitness
2 hours. Students in this course will learn to think critically about their personal health and wellness in the context of Christian commitment. They will learn scientific principles of aerobic conditioning and weight training. Popular lifetime fitness activities will be introduced. Special emphasis will be placed on developing and maintaining lifestyle habits that optimize well-being. *(May not be repeated for credit.)*

HHPA 122 Survival Techniques
1 hour. At the end of the course the student will be able to justify the need for emergency preparedness; elaborate on the philosophical, psychological, and physiological aspects of survival; demonstrate the basic skills necessary to keeping alive in emergencies; and demonstrate ability to improvise in wilderness survival situations. Additional course fee is required.

HHPA 125 Adapted Activities
1 hour. This course is designed for those students who are unable to take regular physical education classes due to the presence of disabilities or illness. Programs are individualized to meet the abilities and needs of those involved. Those who must follow a physician's prescribed program of exercise will be assisted in that program.

HHPA 126 Skiing/Snowboarding
1 hour. This course is designed to improve your skiing or snowboarding. You will learn new skills, improve your fitness, enjoy new challenges on the mountain, and gain a renewed appreciation of God's gifts and creation. Specific objectives depend on your level of expertise and will be explained by your professional ski/snowboard instructor. Additional course fee is required.

HHPA 127 Soccer/Floor Hockey
1 hour. This course will use lectures, practice sessions, and tournament play to acquaint students with the fundamental techniques and strategies of floor hockey and soccer. Floor hockey will be played during the first seven weeks of the semester, soccer during the last seven weeks.

HHPA 129 Tennis
1 hour. Instruction in skills, techniques, rules, and strategies in double and singles. Students will recognize the value of tennis as a potential lifetime recreational activity.

HHPA 130 Aquatics
1 hour. This course is intended to introduce the basics of swimming and is appropriate for all ranges of swimming aptitude. This course will prepare HHP majors to teach the five basic swimming strokes, and will

prepare all students who intend to pursue certification as a lifeguard and/or obtain the Water Safety Instructor's certification. Additional course fee is required.

HHPA 133 Volleyball
1 hour. The student will be instructed in the fundamental techniques, strategies, drills, and understanding of the game of volleyball.

HHPA 134 Wallyball
1 hour. This course will use lectures, practice sessions, video analysis, and tournament play to acquaint students with the fundamental techniques and strategies of wallyball.

HHPA 136 Weight Training
1 hour. This course is designed to teach the physiological principles and training techniques involved in effective strength training and to apply those principles in a 13-week strength-conditioning program.

HHPA 137 Aerobic-Step Exercise
1 hour. This course is designed primarily to introduce students to the basic principles and techniques of step exercise, to improve cardiovascular endurance, muscular strength and endurance, flexibility, agility, and motor skill performance. Emphasis will be placed upon identifying correct body alignment and postural deviations, proper use of step and strength equipment, and proper warm-up and cool-down stretches. Additional course fee is required.

HHPA 138 Aerobic-Cross Training
1 hour. This course is designed primarily to introduce students to the basic principles and techniques of cross-training exercise and to improve cardiovascular endurance, muscular strength and endurance, flexibility, agility, and motor skill performance. Emphasis will be placed upon identifying correct body alignment and postural deviations, proper use of step, cardio, and strength equipment, and proper warm-up and cool-down stretches. Additional course fee is required.

HHPA 139 Advanced Racquetball
1 hour. This class is designed to take students past the beginning level (e.g. HHPA 119/319 Racquetball) in basic skills and help them learn to play at a more skillful and competitive level.

HHPA 140 Self-Defense
1 hour. Twan-Chi means fellowship and is designed to teach students how to rationally respond to any situation in life with confidence, control, and protection. Various techniques of self-defense, as well as how to fall, roll, basic strikes, kicks, pressure points, and submission holds will be taught. Students will learn technique to control fear, anxiety, and their own body when involved in person-to-person contact.

HHPA 145 Intercollegiate Athletics
1 hour. 2 credits toward the physical education general education requirement may be earned in athletics, but no more than 1 hour in any one sport may be counted toward the requirement.

HHPA 301 Basic Rock Climbing
1 hour. The purpose of this course is to provide basic instruction in rock-climbing techniques. The course will cover belaying, knots, top-roped climbing, rappelling, and basic anchor setup. Students will be exposed to both indoor and outdoor rock climbing. Additional course fee is required.

HHPA 303 Backpacking
1 hour. Students will learn the skills and knowledge necessary to prepare for and enjoy a safe wilderness camping experience. Specific skills include planning and packing for a trip, choosing appropriate equipment

and clothing, preparing nutritious foods while in the outdoors, managing risk and appropriately responding in emergencies, reading maps, route finding, using a compass, and using the wilderness responsibly and courteously. Additional course fee is required.

HHPA 304 Bicycle Fitness
1 hour. Each student will have the opportunity for a general education of the use of the bicycle as a tool for recreation, fitness, and a general knowledge of the essential aspects of maintenance and repair.

HHPA 306 Badminton
1 hour. This course is designed to give students knowledge and competency in the areas of skill, rules, etiquette, and strategy in badminton.

HHPA 307 Dance Performance
1 hour. This beginning-to-intermediate class is designed primarily to introduce students to the basic principles and techniques of various forms of dance performance including ballet, jazz, funk, and hip-hop. Students will participate in individual, group, and final class performances. Emphasis will be placed on identifying correct body alignment, improving posture, balance, rhythm, coordination, timing, flexibility, strength, endurance, and choreography.

HHPA 308 Canoeing
1 hour. This course is designed to introduce students to the sport of canoeing and will include instruction designed to assist camping minor students in acquiring the skill and knowledge necessary to conduct teaching sessions in a camp setting. Additional course fee is required.

HHPA 309 Ballroom Dance
1 hour. Instruction in basic to intermediate steps and etiquette in ballroom dance including 6 count and 8 count swing, fox-trot, waltz, and tango.

HHPA 312 Fitness Walking
1 hour. Designed to provide students with an introductory experience, which has the potential to develop into a lifelong health/wellness activity. The student will become familiar with the contributions this regular activity can make toward development of improved fitness and a healthier lifestyle. A regular weekly walking routine and understanding of primary physiological and anatomical principles are significant by-products of the course.

HHPA 313 Pickleball
1 hour. This course is designed to give students knowledge and competency in the areas of skill, rules, etiquette, and strategy in the game of pickleball.

HHPA 314 Golf/Racquet Games
1 hour. This course is designed to develop the fundamental skills involved in the game of golf and racquet sports and to understand the rules and etiquette of each so as to prepare students to enjoy these games as lifelong activities.

HHPA 319 Racquetball
1 hour. This course is designed to give students knowledge and competency in the areas of skill, rules, etiquette, and strategy in racquetball.

HHPA 322 Survival Techniques
1 hour. At the end of the course the student will be able to justify the need for emergency preparedness; elaborate on the philosophical, psychological, and physiological aspects of survival; demonstrate the basic

skills necessary to keeping alive in emergencies; and demonstrate ability to improvise in wilderness survival situations. Additional course fee is required.

HHPA 325 Adapted Activities
1 hour. This course is designed for those students who are unable to take regular physical education classes due to the presence of disabilities or illness. Programs are individualized to meet the abilities and needs of those involved. Those who must follow a physician's prescribed program of exercise will be assisted in that program.

HHPA 326 Skiing/Snowboarding
1 hour. This course is designed to improve your skiing or snowboarding. You will learn new skills, improve your fitness, enjoy new challenges on the mountain, and gain a renewed appreciation of God's gifts and creation. Specific objectives depend on your level of expertise and will be explained by your professional ski/snowboard instructor. Additional course fee is required.

HHPA 327 Soccer/Floor Hockey
1 hour. This course will use lectures, practice sessions, and tournament play to acquaint students with the fundamental techniques and strategies of floor hockey and soccer. Floor hockey will be played during the first seven weeks of the semester, soccer during the last seven weeks.

HHPA 329 Tennis
1 hour. Instruction in skills, techniques, rules, and strategies in double and singles. Students will recognize the value of tennis as a potential lifetime recreational activity.

HHPA 330 Aquatics
1 hour. This course is intended to introduce the basics of swimming and is appropriate for all ranges of swimming aptitude. This course will prepare HHP majors to teach the five basic swimming strokes, and will prepare all students who intend to pursue certification as a lifeguard and/or obtain the Water Safety Instructor's certification. Additional course fee is required.

HHPA 333 Volleyball
1 hour. The student will be instructed in the fundamental techniques, strategies, drills, and understanding of the game of volleyball.

HHPA 334 Wallyball
1 hour. This course will use lectures, practice sessions, video analysis, and tournament play to acquaint students with the fundamental techniques and strategies of wallyball.

HHPA 336 Weight Training
1 hour. This course is designed to teach the physiological principles and training techniques involved in effective strength training and to apply those principles in a 13-week strength-conditioning program.

HHPA 337 Aerobic-Step Exercise
1 hour. This course is designed primarily to introduce students to the basic principles and techniques of step exercise, to improve cardiovascular endurance, muscular strength and endurance, flexibility, agility, and motor skill performance. Emphasis will be placed upon identifying correct body alignment and postural deviations, proper use of step and strength equipment, and proper warm-up and cool-down stretches. Additional course fee is required.

HHPA 338 Aerobic-Cross Training
1 hour. This course is designed primarily to introduce students to the basic principles and techniques of

cross-training exercise and to improve cardiovascular endurance, muscular strength and endurance, flexibility, agility, and motor skill performance. Emphasis will be placed upon identifying correct body alignment and postural deviations, proper use of step, cardio, and strength equipment, and proper warm-up and cool-down stretches. Additional course fee is required.

HHPA 339 Advanced Racquetball
1 hour. This class is designed to take students past the beginning level (e.g. HHPA 119/319 Racquetball) in basic skills and help them learn to play at a more skillful and competitive level.

HHPA 340 Self-Defense
1 hour. Twan-Chi means fellowship and is designed to teach students how to rationally respond to any situation in life with confidence, control, and protection. Various techniques of self-defense, as well as how to fall, roll, basic strikes, kicks, pressure points, and submission holds will be taught. Students will learn technique to control fear, anxiety, and their own body when involved in person-to-person contact.

HHPA 345 Intercollegiate Athletics
1 hour. 2 credits toward the physical education general education requirement may be earned in athletics, but no more than 1 hour in any one sport may be counted toward the requirement.

HHPA 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

HHPE (Health and Human Performance Education) Health and Human Performance Education

HHPE 200 History and Principles of Physical Education
2 hours. A survey of the history and development of physical education and athletics in America. The course will also emphasize fundamental principles of physical education and sport.

HHPE 221 Basketball/Golf
1 hour. Intermediate to advanced instruction in skills, teaching techniques, rules, and strategy for basketball and golf.

HHPE 222 Field Sports
1 hour. Beginning to intermediate instruction in skills, teaching techniques, rules, and strategy. Flag football, soccer, speedball, and korfball are emphasized.

HHPE 223 Tumbling/Gymnastics
1 hour. Beginning to intermediate instruction in skills, teaching techniques, spotting, and safety factors involved in tumbling and gymnastics.

HHPE 226 Tennis/Volleyball
1 hour. Intermediate to advanced skills and techniques, with emphasis on learning how to teach basic skills and drills. Tournament organization and game administration are included.

HHPE 228 Conditioning/Body Mechanics and Aerobics

1 hour. Instruction in concepts related to developing and maintaining physical fitness and movement skills.

HHPE 232 Recreational Games, Individual and Team
1 hour. Intermediate to advanced instruction in skills, teaching techniques, rules, and strategy for archery, badminton, and recreational games.

HHPE 275 Field Experience
1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: instructor's permission.

HHPE 285 Selected Topics
2-3 hours. A seminar dealing with various topics, as announced, that represent current faculty interests and competencies.

HHPE 295 Special Study
1-3 hours. Individual research under the guidance of the faculty.
Prerequisite: instructor's permission.

HHPE 300 Coaching Theory and Practice
2 hours. The development of a philosophy of coaching. Emphasizes the psychological, sociological, and technical aspects of athletic participation.

HHPE 310 Coaching Basketball
2 hours. An analysis of systems of play, principles of offense and defense, and strategies of the game. The organization of practice sessions, administration of games, and techniques of scouting are stressed.
Prerequisite: instructor's permission.

HHPE 320 Coaching Baseball/Softball
2 hours. A study of systems of play, principles of offense and defense, and strategies of the game. The organization of practice sessions, administration of games, and techniques of scouting are stressed.

HHPE 330 Coaching Soccer
2 hours. An analysis of systems of play, principles of offense and defense, and strategies of the game. The organization of practice sessions, administration of games, and techniques of scouting are stressed.
Prerequisite: instructor's permission.

HHPE 340 Coaching Track
2 hours. A study of the techniques and principles of coaching each event. The organization of practice sessions and the strategy for - and administration of - track meets are discussed.
Prerequisites: varsity experience and instructor's permission.

HHPE 350 Coaching Volleyball
2 hours. An analysis of systems of play, principles of offense and defense, and strategies of the game. Organization of practice sessions, administration of games, and techniques of scouting are stressed.

HHPE 360 Organization and Administration of Health, Physical Education, and Athletic Training
2 hours. Instruction in the planning and implementation of health, physical education, athletic training, and athletics programs. Course content will include curriculum design, budget formation, facility design, and coordination. Professional conduct and ethics will be stressed.

HHPE 364 Psychosocial Intervention and Referral in Athletic Training
3 hours. Examines the knowledge, skills, and values that the entry-level certified athletic trainer must possess to recognize and intervene, and when appropriate, refer to a recognized professional; the socio-cultural, mental, emotional, and physical behaviors of athletes and others involved in physical activity.

HHPE 366 General Medical Conditions in Athletic Training
2 hours. Examines the knowledge, skills, and values that the entry-level certified athletic trainer must possess to recognize, treat, and refer, when appropriate, the general medical conditions and disabilities of athletes and others involved in physical activity. Students will be introduced and exposed to various health care providers.

HHPE 370 Camp Programming and Counseling
3 hours. A camping overview: its historical development and philosophy. Types of camps, program activities, teaching-learning models, leadership recruitment and training - with special emphasis on methods of camp counseling - are covered. Overnight campout is required. Additional course fee is required. (Identical to CHMN 370.)

HHPE 374 Athletic Training Practicum I
1 hour. Supervised experience in an athletic training environment. Additional study required, with an emphasis on athletic training techniques and athletic injury management. Additional course fee is required.
Prerequisites: BIOL 331 Human Anatomy and Physiology I, BIOL 332 Human Anatomy and Physiology II, HHPE 390 Care and Prevention of Athletic Injuries, HLTH 233 Responding to Emergencies, acceptance into the Athletic Training Education Program, and permission.

HHPE 375 Athletic Training Practicum II
1 hour. Supervised experience in an athletic training environment. Additional study required, with an emphasis on athletic training techniques and athletic injury management.
Prerequisites: HHPE 374 Athletic Training Practicum I, HHPE 394 Kinesiology, HHPE 400 Recognition of Athletic Injuries.

HHPE 376 Athletic Training Practicum III
1 hour. Supervised experience in an athletic training environment. Additional study required, with an emphasis on athletic training techniques and athletic injury management.
Prerequisite: HHPE 375 Athletic Training Practicum II.

HHPE 377 Athletic Training Practicum IV
1 hour. Supervised experience in an athletic training environment. Additional study required, with an emphasis on athletic training techniques and athletic injury management.
Prerequisites: HHPE 376 Athletic Training Practicum III, HLTH 300 Nutrition.

HHPE 378 Athletic Training Practicum V
1 hour. Supervised experience in an athletic training environment. Additional study required, with an emphasis on athletic training techniques and athletic injury management.
Prerequisites: HHPE 228 Conditioning/Body Mechanics and Aerobics, HHPE 360 Organization and Administration of Health, Physical Education, and Athletic Training, HHPE 364 Psychosocial Intervention and Referral in Athletic Training, HHPE 377 Athletic Training Practicum IV, HHPE 413 Therapeutic Exercise.

HHPE 379 Athletic Training Practicum VI
1 hour. Supervised experience in an athletic training environment. Additional study required, with an emphasis on athletic training techniques and athletic injury management.

Prerequisites: HHPE 366 General Medical Conditions in Athletic Training, HHPE 378 Athletic Training Practicum V, HHPE 384 Pharmacology in Athletic Training, HHPE 430 Exercise Physiology

HHPE 380 Experiential Recreational Leadership
3 hours. A study of theory and practice of experiential leadership in adventure and recreation education/programming. Leadership styles, techniques, methods, and practices will be the core subjects taught in this highly experiential class involving an outdoor lab component.

HHPE 384 Pharmacology in Athletic Training
1 hour. An emphasis on the knowledge, skills, and values required of an athletic trainer on pharmacologic applications, including indications, contraindications, precautions, interactions, and governing regulations relevant to the treatment of injuries and illnesses of the physically active.
Prerequisites: BIOL 331 Human Anatomy and Physiology I and BIOL 332 Human Anatomy and Physiology II.

HHPE 390 Care and Prevention of Athletic Injuries
3 hours. An introductory survey of athletic training. Emphasis will be on terminology, injury prevention, evaluation, treatment, and emergency care procedures. Common taping techniques also will be presented. Additional course fee is required.

HHPE 394 Kinesiology
3 hours. Application of human anatomy and physical laws to the explanation of movement activities. Special emphasis is given to detailed analysis of various sports activities.
Prerequisites: BIOL 331 Human Anatomy and Physiology I and BIOL 332 Human Anatomy and Physiology II.

HHPE 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

HHPE 400 Recognition of Athletic Injuries
3 hours. Course will examine "normal" human anatomy, mechanisms of athletic injury, and deviation from "normal" anatomy in an athletic injury. Practice time will be given on techniques of evaluation. Permission required.
Prerequisites: BIOL 331 Human Anatomy and Physiology I and BIOL 332 Human Anatomy and Physiology II and HHPE 390 Care and Prevention of Athletic Injuries.

HHPE 410 Teaching Physical Education
2 hours. Development of competence, style, and confidence in teaching physical education for the physical education major. Emphasis is given to analysis of objectives, unit and lesson planning, instruction methods, means of evaluation, and class procedures and control.

HHPE 413 Therapeutic Exercise
2 hours. Course will examine exercise procedures as the first modality for rehabilitation of the injured athlete. Also examines the role of exercise for the prevention of injuries, as well as rehabilitation to all major joints and musculature of the body. Includes a lab for practice.
Prerequisites: HHPE 390 Care and Prevention of Athletic Injuries and HHPE 394 Kinesiology.

HHPE 414 Therapeutic Modalities
2 hours. Course will examine the role of therapeutic modalities including thermal modalities, electrical

agents, deep heating agents, and mechanical modalities in the rehabilitation of the injured athlete. Includes a lab for practice.
Prerequisites: HHPE 390 Care and Prevention of Athletic Injuries and HHPE 400 Recognition of Athletic Injuries.

HHPE 420 Exercise Prescription
3 hours. Application of exercise testing and prescription of individuals ranging from athletes to special populations. Includes aspects of nutrition, disease, training methods, and exercise responses.
Prerequisites: BIOL 331 Human Anatomy and Physiology I and BIOL 332 Human Anatomy and Physiology II.

HHPE 430 Exercise Physiology
3 hours. Application of principles of physiology to physical activity. Special attention is given to the effect of exercise on the various body systems and the construction of training programs.
Prerequisites: BIOL 331 Human Anatomy and Physiology I and BIOL 332 Human Anatomy and Physiology II.

HHPE 440 Camp Administration
2 hours. Designed to develop a basic understanding of programming, business, and leadership at an administrative level. A weekend camping trip is required. Additional course fee is required. (Identical to CHMN 440, but doesn't include a prerequisite.)

HHPE 460 Physical Education for the Exceptional Student
3 hours. This course considers the nature and etiology of disability and handicapping conditions, as well as the implications for and development of appropriate physical education programs.

HHPE 470 Motor Development and Motor-Skill Learning
3 hours. A study of the development of motor skills. Psychological principles of learning are applied to motor-skill learning. A review of research and an inquiry into the effect of various conditions on the learning and performance of motor skills from early childhood through the adult years.

HHPE 475 Fitness Management Field Experience
6 hours. Supervised field experience for senior human performance majors in the fitness management major track. Field experience takes place in a variety of settings, including health clubs, YMCAs, cardiac rehabilitation programs, nutritional centers, senior citizen centers, and community recreation programs.
Prerequisite: by permission only, with application made one semester in advance of placement.

HHPE 480 Tests and Measurements in Physical Education
2 hours. Emphasis is given to methods of evaluation in programs of physical education. Testing procedures, standard tests, physical examinations, and evaluation activities are discussed.

HHPE 485 Selected Topics
2-3 hours. A seminar dealing with various topics, as announced, that represent current faculty interests and competencies.

HHPE 490 Senior Seminar
1 hour. Research of current issues in health, physical education, and athletics. Senior thesis and public presentation of thesis is required.

HHPE 495 Special Study
1-3 hours. Individual research under the guidance of the faculty.
Prerequisite: instructor's permission.

HIST (History)
History

HIST 110 Western Civilization to 1648
3 hours. A survey of Western civilization from the ancient world through the Reformation and religious wars, including attention to the origins and development of religious, political, and economic life and ideas.

HIST 120 Western Civilization from 1648
3 hours. A survey of European civilization from early modern Europe to the present day. Special attention is given to the political, economic, and religious developments that continue to influence European society and its role in world events.

HIST 151 United States to 1865
3 hours. The first half of a two-semester survey of American history. The course surveys historical development from human origins in North America through the founding of the United States to the end of the Civil War.

HIST 152 United States from 1865
3 hours. The second half of a two-semester survey of American history. The course surveys historical development in the United States beginning with Reconstruction of the nation during and after the Civil War and continuing through contemporary times.

HIST 220 War and Conscience in the United States
3 hours. An exploration of American thought on the subject of war, both today and in past crises such as the American Revolution, Civil War, wars with the American Indians, the world wars, Vietnam War, and the Gulf War; a study of the official position major church bodies have taken in regard to war; and the experiences of individuals who refused to fight. (Identical to PSCI 220.)

HIST 250 Latin America
3 hours. Latin American countries from colonial times to the present, with an emphasis on the conditions that have led to the crises of recent years.

HIST 275 Field Experience
2-10 hours. Supervised experiences in museums, historical societies, and government agencies.
Prerequisites: upper-division history majors, and by permission.

HIST 280 Introduction to Political Philosophy
3 hours. A study of great political thinkers and issues from Socrates to the present. Students are encouraged to understand and evaluate these thinkers in their historical contexts, and to consider them as philosophers whose insights are relevant for contemporary debates. (Identical to PHIL 280 and PSCI 280.)

HIST 285 Selected Topics
3 hours. Occasional special courses scheduled to fit the interests of students and faculty and the needs of a shifting society. A course in presidential elections is offered in presidential-election years (2012, 2016).

HIST 290 Introduction to Historical Studies
3 hours. An introduction to the basic skills, methods, and resources of historical scholarship; the types of historical literature and scholarship; Christian foundations for historical interpretation; historical schools of interpretation; and the uses of historical scholarship.

HIST 300 American Political Theory
3 hours. A survey of the major developments in U.S. political theory from the Puritans to the present. The relationship between Christianity and American political theory is given special attention. (Identical to PHIL 300 and PSCI 300.)

HIST 330 The American West
3 hours. Examines the relationship of the American West to the rest of the nation through its exploration, settlement, and development. Special attention is given to the Pacific Northwest and to the Native American experience.

HIST 331 England to 1688
3 hours. The growth of the English nation from Roman times to the Glorious Revolution, with special attention given to constitutional and religious development.

HIST 332 England from 1688
3 hours. England in the modern age, emphasizing the response of its institutions to its rapidly changing role in the European and world communities.

HIST 340 History of the Middle East
3 hours. Explores the political, economic, social, and religious developments in the Middle East from the ancient to the modern era, with emphasis on the latter period.

HIST 343 History of Southern Africa
3 hours. A study of the history of southern Africa from about 1500 to the present with particular attention to the native groups of the region, Dutch colonization and British imperialism, and relations between diverse ethnic groups in the last two centuries.

HIST 360 Modern Russia
3 hours. A study of 20th- and 21st-century Russia and other former Soviet republics, with emphasis on their current significance in the world and the factors in their history that brought the Revolution of 1917 and the collapse of the Soviet Union.

HIST 370 Modern China and Japan
3 hours. Political and cultural developments of China and Japan.

HIST 380 The African-American Experience in the United States
3 hours. A study of Africans in an America dominated by those of European descent.

HIST 390 Peace Research
1-3 hours. Directed research on peace subjects, both current and historical. Students will normally write a major research paper. (Identical to PSCI 390.)

HIST 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

HIST 401 Christianity in History I
3 hours. The development of Christianity from its appearance within the Greco-Roman world through the

medieval period, and its influence as a base for culture in the West. (Identical to RELI 401.)

HIST 402 Christianity in History II
3 hours. Christianity's development from the dawn of the Protestant Reformation through its global spread during the modern era, observing its historical context and relationship to the surrounding cultures. (Identical to RELI 402.)

HIST 410 Classical Greece and Rome
3 hours. A survey of classical Greece and Rome from 1600 B.C. through the collapse of the Roman Empire in the West in the fifth century A.D. Political, economic, and social developments are stressed, including the rise of Christianity and the early church.

HIST 419 Medieval Europe
3 hours. A survey of medieval Europe from the collapse of the Roman Empire in 500 to the rise of Modern Europe in 1500. Special attention is given to the important political, economic, and religious developments of this period.

HIST 421 Europe from the Age of Enlightenment to 1890
3 hours. European political, economic, cultural, and intellectual developments from the late 17th century through 1890.

HIST 422 Europe 1890-Present
3 hours. Europe in the 20th and 21st centuries, with emphasis on the upheavals of the two world wars and the status of the European states today.

HIST 420 War and Conscience in the United States
3 hours. An exploration of American thought on the subject of war, both today and in past crises such as the American Revolution, Civil War, wars with the American Indians, the world wars, Vietnam War, and the Gulf War; a study of the official position major church bodies have taken in regard to war; and the experiences of individuals who refused to fight. (Identical to PSCI 420.)

HIST 450 The United States and Persian Gulf Conflicts
3 hours. Examines the American role in the two wars with Iraq, their antecedents and results. Attention is also given to the contemporary issue of terrorism and its relation to these wars.

HIST 456 Classics of American History
3 hours. This course is a seminar that allows students to study some of the great works of American history. In addition to mastering the historical knowledge the books provide, students will develop an advanced understanding of both the social and political climate within which the books were written, and the histiographical traditions that informed the interpretations.

HIST 457 The Colonial Experience, 1607-1763
3 hours. Studies Colonial life in the British colonies of North America from the founding of Jamestown to the end of the French and Indian War. Emphasis is placed on religious conflict and development, the growing sense of a unique American identity, and the importance of community as opposed to the distant British government in the lives of everyday citizens.

HIST 458 The Making of the American Republic, 1754-1825
3 hours. Studies the world of the founders. Emphasis is placed on the ideological, social, and political milieu that gave birth to the American Revolution and Constitution. The course also considers the radical changes in American society the revolution set in motion.

HIST 459 The Era of the Civil War, 1825-1898
3 hours. Examines the causes of the Civil War. In addition, slavery, Christianity, the westward movement, the struggle for power in Congress, Abraham Lincoln, the rise of Northern industrialism, and Southern society are all studied in their own right and in relation to the conflict some historians call "the crossroads of our being."

HIST 468 America in the Time of the Two World Wars, 1898-1945
3 hours. Considers how economic growth and then depression challenged the American government and people to redefine the American Dream and to discover new avenues for achieving it. At the same time, Europe confronted America with two world wars, which also changed the nature of American society and the role of the United States in the world.

HIST 469 Recent America, 1945-Present
3 hours. Studies America as the leader of the Western world during the Cold War and how that role impacted the social, economic, intellectual, and political currents in American life. This course also examines the rise of interest groups, the increased political prominence of ethnic and women's groups, and the impact of these groups on American culture.

HIST 470 Renaissance and Reformation
3 hours. The political, social, and religious life of Europe from the beginning of the Renaissance to the Peace of Westphalia, with emphasis on the various reform movements and their impact on the modern world.

HIST 475 Field Experience
2-10 hours. Supervised experiences in museums, historical societies, and government agencies.
Prerequisites: upper-division history majors, and by permission.

HIST 485 Selected Topics
3 hours. Occasional special courses scheduled to fit the interests of students and faculty and the needs of a shifting society. A course in presidential elections is offered in presidential-election years (2012, 2016).

HIST 490 History Seminar
3 hours. The course examines the methods professional historians use in writing history and the main currents in American historiography through the reading of America's most influential historians. Working closely with the instructor, students are required to write a research paper based on primary sources. The paper will be permanently retained by the history faculty.

HIST 495 Special Study
1-3 hours. Independent study of subjects outside regular offerings. Guiding bibliographies are provided, and regular reading reports and conferences are scheduled.
Prerequisites: upper-division history majors, and by permission.

HLTH (Health Education)
Health Education

HLTH 210 Drug Education
2 hours. Issues concerned with the use, misuse, and abuse of selected pharmacological agents. Social, psychological, physical, and moral implications are considered. Particular consideration is given to ergogenic aids in athletics.

HLTH 230 First Aid and Safety
1 hour. Instruction in first aid and safety and leading to certification in first aid and cardiopulmonary resuscitation CPR). Additional course fee is required.

HLTH 233 Responding to Emergencies
2 hours. Students will receive instruction in Basic First Aid and CPR for the Professional Rescuer using the curriculum of the American Red Cross, leading to American Red Cross certification in First Aid and CPR/AED for the Professional Rescuer. Additional course information will meet first aid competencies outlined by the Athletic Training Education Program. Additional course fee is required.
Prerequisite: instructor's permission.

HLTH 240 Stress Management
3 hours. A study of causes, symptoms, and results of stress. Introduces practical techniques to alleviate stress, promote relaxation, and encourage a healthy lifestyle.

HLTH 275 Field Experience
1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: instructor's permission.

HLTH 285 Selected Topics
1-3 hours. A seminar dealing with various topics as announced that represent current faculty interests and competencies.

HLTH 300 Nutrition
3 hours. A study of nutrients present in foods and their relation to the nutritive needs of the human body. Emphasis on the young adult, along with discussion of contemporary nutrition-related topics of national and global concern. Computer-assisted dietary analysis will be included. (Identical to FCSC 300.)

HLTH 320 Contemporary Health Issues
3 hours. A study of our nation's current health problems and concerns. Emphasis on health consumerism and current trends, diseases, the sanctity of life, and fitness. Goal is to develop an educated view on current health issues.

HLTH 323 Sociology of Families
3 hours. A study of marriage and the family from a sociological perspective, including historical, cross-cultural, and economic backgrounds. A Christian faith perspective will emphasize the worth of people, the importance of the family as a place of nurture, and the gift of marriage. (Identical to FCSC 323 and SOCI 323).

HLTH 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

HLTH 475 Field Experience
1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This advanced experience must have an on-site supervisor and/or a departmental instructor

overseeing, designing, and evaluating the content of the course.
Prerequisite: instructor's permission.

HLTH 485 Selected Topics
1-3 hours. A seminar dealing with various topics as announced that represent current faculty interests and competencies.

INTL (International Studies)
International Studies

INTL 200 Cultural Geography and Global Relationships
3 hours. A study of the world's cultural regions developed through the themes of location, human environmental relationships, movement, and regions, with emphasis on the interrelatedness of culture, physical, economic, historical, and political geography in creating the dynamic cultural landscapes existing today. (Identical to GEOG 200.)

INTL 230 Introduction to International Relations
3 hours. Introduction to the principles and study of interstate relations in the contemporary world. Special attention is given to the issues of sovereignty, the United Nations, and international law. (Identical to PSCI 230.)

INTL 275 Field Experience
1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: instructor's permission.

INTL 285 Selected Topics
1-3 hours. An introductory seminar offered on an occasional basis addressing a current topic in the field that is of special interest to students and current faculty.

INTL 303 International Conflict and Peace
3 hours. This course considers the causes of international conflict and possible approaches to their resolution. An emphasis is placed on strategies to prevent and resolve conflicts without the use of violence. (Identical to PSCI 303 and SOCI 303.)

INTL 310 Cultural Anthropology
3 hours. A comparative study of world societies and their ways of life. (Identical to SOCI 310.)

INTL 330 Introduction to the World Christian Movement
3 hours. The biblical basis and history of missions are considered, with a special focus upon the modern missionary movement of the last 200 years. (Identical to RELI 330.)

INTL 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

INTL 440 World Religions
3 hours. A comparative study between Christianity and other prominent religions of the world, such as Buddhism, Islam, Hinduism, and contemporary kinds of alternative religion. (Identical to RELI 440.)

INTL 460 International Trade and Finance
4 hours. An overview of international economics with attention to international trade, economic cooperation, foreign exchange, international banking, and global financial institutions. Attention is given to trade policies, bilateral and multilateral trade negotiations, the functioning of firms in the international economy, and reform of the global financial architecture. (Identical to ECON 460.)
Prerequisites: ECON 201 Principles of Microeconomics and ECON 202 Principles of Macroeconomics.

INTL 475 Culture-Oriented Fieldwork
3-12 hours. Supervised experiences in a non-American culture.
Prerequisite: upper-division international studies majors or minors, and by permission.

INTL 485 Selected Topics
1-3 hours. An advanced seminar offered on an occasional basis addressing a current topic in the field that is of special interest to students and current faculty.

INTL 490 International Studies Senior Seminar
3 hours. Required of senior international studies majors, the course emphasizes the investigation of theoretical and current applications of interdisciplinary research in international studies. Students with a significant interest in international issues are welcome, with the consent of the instructor. A research paper based upon primary source materials is the main assignment of the course.

JOUR (Journalism)
Journalism

JOUR 200 Persuasive Communication
3 hours. A presentation of key principles of persuasion as they are reflected in typical organizational communication contexts. Focus on developing a planning sequence that will function as a practical guide for designing, executing, and evaluating communication events. Students will be expected to develop a "real world" communication event, e.g., publicity campaign, speech, newsletter. (Identical to COMM 200)
Prerequisite: COMM 100 Introduction to Communication or equivalent.

JOUR 210 Practical Grammar and Editing
3 hours. This course helps those who want to understand and to be able to explain to others what can be done to make writing correct, clear, and precise. Focuses on constructing, editing, and correcting sentences and paragraphs. This is not a remedial course. (Identical to WRIT 210)

JOUR 230 Introduction to Journalism
3 hours. A course designed to provide fundamental knowledge and experience in reporting, writing, and editing news for the print media. (Identical to WRIT 230.)
Prerequisite: WRIT 110 College Writing or equivalent, or instructor's permission.

JOUR 270 Broadcast News I
3 hours. This class covers the basic principles of broadcast journalism: broadcast news writing, broadcast videography, and Internet-distributed video news production. Students participate in a student-focused television news show by creating news and feature videos for broadcast (cable, online); they will create a demo tape/DVD from those packages. (Identical to CMCO 270)

Prerequisite: CMCO 230 Introduction to Video Production or instructor's permission.

JOUR 275 Field Experience
1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course. *Prerequisite: instructor's permission.*

JOUR 285 Selected Topics
3 hours. Occasional special courses created to fit the needs and interests of faculty, visiting professors, and students.

JOUR 310 Desktop Publishing and Design
3 hours. This course explores trends in media convergence, focusing as well on the ways reporters, editors, and designers create stories for the web. Particular emphasis will be on web-based story design, the coordination of text and art, and the creation of stories for a variety of new media outlets. (Identical to WRIT 310)
Prerequisite: WRIT 110 College Writing or equivalent, or instructor's permission.

JOUR 320 Introduction to Public Relations
3 hours. A course designed to introduce and develop a clear concept of public relations as a communication profession. Topics to be covered include the function of public relations in both public and private enterprises; the process of planning and implementing a public relations communication campaign; techniques for communicating with various publics; and the laws and ethics governing the practice of public relations. (Identical to COMM 320)
Prerequisite: one course in business or communication arts.

JOUR 330 Writing for Publication
3 hours. A workshop approach to writing nonfiction articles and other shorter nonfiction forms for periodicals. Student-produced material is submitted to various magazines as part of course expectations. Special attention will be given to Christian markets. (Identical to WRIT 330)
Prerequisite: WRIT 110 College Writing or equivalent, or instructor's permission.

JOUR 470 Journalism II
3 hours. Students hone journalistic skills in areas such as interviewing techniques, cultivating sources, investigative reporting, and editing and layout. (Identical to CMCO 470.)
Prerequisite: JOUR 230 Introduction to Journalism or instructor's permission.

JOUR 475 Field Experience
1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: instructor's permission.

JOUR 480 Senior Capstone: Ethical and Spiritual Dimensions of Communication
3 hours. Designed to integrate skills and concepts from communication course work with ethical and spiritual principles through readings, written assignments, and assessment instruments. Students will complete portfolios that will include work samples and department exit exams along with a statement of what it means to be a Christian communicator. A service component may be included as part of the course. (Identical to COMM 480 and WRIT 480)

JOUR 485 Selected Topics

3 hours. Occasional special courses created to fit the needs and interests of faculty, visiting professors, and students.

JOUR *495 Special Study*
1-3 hours. Individualized study related to the student's needs and interests. Open to exceptional students at the discretion of the faculty.

JPNS (Japanese)
Japanese

JPNS 101 First-Year Japanese I
3 hours. A study of the structures of the Japanese language, with practice in listening, speaking, reading, and writing. The culture of Japan is presented as an integral component of language study.

JPNS 102 First-Year Japanese II
3 hours. A study of the structures of the Japanese language, with practice in listening, speaking, reading, and writing. The culture of Japan is presented as an integral component of language study.
Prerequisite: JPNS 101 First-Year Japanese I or one year of high school Japanese or placement by exam.

JPNS 201 Second-Year Japanese I
3 hours. A thorough review of Japanese language structures, with intensive practice in reading, speaking, and writing. Language lab listening and interaction are required.
Prerequisite: JPNS 102 First-Year Japanese II or two years of high school Japanese or placement by exam.

JPNS 202 Second-Year Japanese II
3 hours. A thorough review of Japanese language structures, with intensive practice in reading, speaking, and writing. Language lab listening and interaction are required.
Prerequisite: JPNS 201 Second-Year Japanese I or two years of high school Japanese or placement by exam.

LEAD (Leadership Studies)
Leadership Studies

LEAD 235 Residence Life Seminar
1 hour. An integrative seminar linking residence-life leadership, course work, and group exercises. Examines the educational implications of residence life by giving attention to what causes dissonance in the lives of undergraduates, how community is created, and how leaders function as models on a college campus. Pass/No Pass.
Prerequisite: current member of the residence life staff.

LEAD 275 Leadership Experience
1-3 hours. Designed to provide students with an opportunity to develop their leadership skills through work or volunteer experience. All leadership experience proposals subject to the approval of the leadership studies program directors. Possible placements might include leading a church youth group, directing a social-concern project, managing the campus radio station, or serving as a member of student government. Pass/No Pass.

LEAD 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the

intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

LEAD 435 Residence Life Seminar
1 hour. An integrative seminar linking residence-life leadership, course work, and group exercises. Examines the educational implications of residence life by giving attention to what causes dissonance in the lives of undergraduates, how community is created, and how leaders function as models on a college campus. Pass/No Pass.
Prerequisite: current member of the residence life staff.

LEAD 475 Leadership Experience
1-3 hours. Designed to provide students with an opportunity to develop their leadership skills through work or volunteer experience. All leadership experience proposals subject to the approval of the leadership studies program directors. Possible placements might include leading a church youth group, directing a social-concern project, managing the campus radio station, or serving as a member of student government. Pass/No Pass.

LEAD 491 Leadership Seminar I
1 hour. Integrative seminar linking leadership practicum, course work, and readings. Topics include servant leadership, transformational leadership, and leadership development. Occasional retreats and other off-campus activities. Pass/No Pass.

LEAD 492 Leadership Seminar II
1 hour. Integrative seminar linking leadership practicum, course work, and readings. Topics include servant leadership, transformational leadership, and leadership development. Occasional retreats and other off-campus activities. Pass/No Pass.

LEAD 493 Leadership Seminar III
1 hour. Integrative seminar linking leadership practicum, course work, and readings. Topics include servant leadership, transformational leadership, and leadership development. Occasional retreats and other off-campus activities. Pass/No Pass.

LEAD 494 Leadership Seminar IV
1 hour. Integrative seminar linking leadership practicum, course work, and readings. Topics include servant leadership, transformational leadership, and leadership development. Occasional retreats and other off-campus activities. Pass/No Pass.

LITR (Literature)
Literature

LITR 100 Introduction to Literature
3 hours. Explores the major genres, themes, and elements of literature.

LITR 220 Great American Writers
3 hours. A brief survey of American literary history, combined with a close study of some of the most engaging works and writers in the tradition.

LITR 236 Ancient World Literature

3 hours. Introduces and examines as literary texts significant works of world mythologies. Readings stress those cross-cultural themes and literary forms exemplifying the ideals, values, and concerns that have shaped our shared human condition. The course surveys myths from African, Middle Eastern, Asian, Native American, Meso-American, Oceanic, and European literatures. Universal motifs and unique differences in these traditional sacred and secular stories are examined with an eye to understanding how myths underpin cultural, community, and individual values, ethical teachings, and spiritual experiences that continue to inform the world's cultures.

LITR 237 World Literature, Medieval to Modern
3 hours. Considers works written in Africa, the Middle East, Asia, Oceania, Europe, and the Americas during the medieval and early modern periods. Students examine culturally defining texts that reflect both the uniqueness of culture and the universality of literary themes. Students read a sample of texts written between the medieval period and 1900. The focus is on texts that continue to be important to the culture they represent, such as *The Tale of Genji, Journey to the West, The Thousand and One Nights, The Divine Comedy*, and *Shakuntala*.

LITR 238 Contemporary World Literature
3 hours. Examines contemporary literatures across the world in order to explore both the similarities and differences in literary styles and themes. Because so much current non-Western literature is influenced by Western literature, culture, and values, students will consider historical background, including colonial, post-colonial, or political readings of writers such as Chinua Achebe, Gabriel GÃ¡rcia MÃ¡rquez, Nadine Gordimer, Lu XÃ¼n, and Jamaica Kincaid.

LITR 240 Understanding Drama
3 hours. A study of significant plays from the classical period to the present, both as literary works and staged productions, the goal being a deeper understanding and appreciation of drama as a symbolic form. Primary focus is on literary values, with attention also given to the constraints and interpretations embodied in the staging, acting, and directing of a play. (Identical to THEA 240.)

LITR 270 Great British Writers
3 hours. An introduction to British literary history, combined with a close study of some of the most engaging works and writers in the tradition.

LITR 275 Field Experience
*1-3 hours.*Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: instructor's permission.

LITR 280 Literary Foundations of Women's Studies
3 hours. Introduces students to literature that presents the groundwork for women's studies and considers a selection of contemporary texts that apply that perspective. Reading will include significant novels, poems, and essays that demonstrate the history of women's contribution to literature, culture, and Christianity.

LITR 285 Selected Literary Topics
3 hours. An occasional course that allows professors and students to investigate interesting literary byways. Past selections have included studies in science fiction, the literature of human rights, the short story, and the works of particular authors.

LITR 326 American Literature to 1865
3 hours. A selective look at early American literature, from 1607 to 1865. Examines themes, movements,

and writers who influenced and were influenced by the growth of the new nation.
Prerequisite: another LITR course or equivalent, or permission of instructor.

LITR 327 American Literature, 1865-1914
3 hours. A selective look at the literature of the United States, from 1865 to 1914. Particular attention is given to the masters of realistic and naturalistic fiction, and to the poets who most clearly influenced modern poetry.
Prerequisite: another LITR course or equivalent, or instructor's permission.

LITR 328 American Literature, 1914-Present
3 hours. A selective look at the literature of the United States, from 1914 to the present. Particular attention is given to the masterworks of Modernism, especially to those that have proven influential in contemporary literature.
Prerequisite: another LITR course or equivalent, or permission of instructor.

LITR 340 Poetry
3 hours. A study of poetry as a distinct literary form, including the major genres of poetry and the strategies for reading and analyzing poems, including the use of figurative language, scansion, and symbolism. Explores the interaction of form and content and the relationship of text to context.
Prerequisite: another LITR course or equivalent, or permission of instructor.

LITR 350 Literary Criticism
3 hours. Introduces students to various schools of literary criticism. Students will practice using different critical approaches to writing about literature. Recommended for juniors and seniors.
Prerequisite: WRIT 200 Understanding Literature and 6 hours of literature courses or instructor's permission.

LITR 360 Values Through Story and Myth
3 hours. A consideration of selected writers and works that attempt to understand, explore, and transmit values through narrative. Works considered will range from fiction to nonfiction, including essays, short stories, film, poems, and novels. The focus is on issues related to gender, the environment, and the social/political community as they reveal and define our contemporary world and its cultural values structures.
Prerequisite: another LITR course or equivalent or instructor's permission.

LITR 376 British Literature to 1660
3 hours. A selective look at the literature of the British Isles, from the earliest texts through 1660. Particular attention is given to the Anglo-Saxon, Medieval, and Renaissance periods.
Prerequisite: another LITR course or equivalent or instructor's permission.

LITR 377 British Literature, 1660-1830
3 hours. A selective look at the literature of the British Isles during the Restoration, the Neoclassical, and the Romantic periods. Particular attention is given to the emergence of the novel and the poets who most clearly influenced the continuing development of poetry.
Prerequisite: another LITR course or equivalent or instructor's permission.

LITR 378 British Literature, 1830-Present
3 hours. A selective look at the literature of the British Isles during the Victorian, Modern, and Contemporary periods. Particular attention is given to the literature of doubt and faith, the development of the novel, and post-Colonial issues.
Prerequisite: another LITR course or equivalent or instructor's permission.

LITR 379 Shakespeare
3 hours. A consideration of the life and works of the poet/playwright and the sociopolitical history of the Renaissance. The course examines the sonnets and a selection of the plays from each genre: comedy, tragedy, history, and tragicomedy.
Prerequisite: another LITR course or equivalent or instructor's permission.

LITR 380 Gender Theory
3 hours. This course is designed expose students to the ways that gender theory, including feminism, womanism, anti-sexism, and masculinism, has developed over the years, and how that theory is applied to literature.

LITR 385 Major Authors
3 hours. Focuses on a major author or authors, changing from year to year according to the professor's expertise. The course considers the different phases of the career and development of the author's art, as well as the appropriate contexts in which she or he wrote, and his or her legacy for later writers. May be repeated for different authors.
Prerequisite: another LITR course or equivalent or instructor's permission.

LITR 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

LITR 440 A Study of the Modern Novel
3 hours. Examines the modern novel as a distinct literary form through the analysis of important world writers. Discusses such issues as the relationship between novelistic structure and ideology.
Prerequisite: another LITR course or equivalent or instructor's permission.

LITR 475 Field Experience
1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This advanced experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: instructor's permission.

LITR 480 International Women's Voices
3 hours. Considers contemporary writings from women around the world. Students analyze these literary texts, examine the cultures they represent, and keep apprised of current events related to women.
Prerequisite: another LITR course or equivalent or instructor's permission.

LITR 485 Selected Literary Topics
3 hours. An occasional course that allows professors and students to investigate interesting literary byways. Past selections have included studies in science fiction, the literature of human rights, the short story, and the works of particular authors.

LITR 495 Special Study
1-3 hours. Individualized study related to the student's needs and interests. Open to exceptional students at the discretion of a faculty member.

MATH (Mathematics)
Mathematics

MATH 095 Math Skills
1-3 hours. Individually designed mathematical training to meet the needs and goals of any individual student. The extent of this training will be determined through a testing process. Topics covered include basic math, elementary algebra, and intermediate algebra. This course does not fulfill general education requirements.
This course is pre-college level and carries no credit toward degree requirements.

MATH 150 The World of Mathematics
3 hours. An introduction to various topics of modern mathematics from an elementary point of view so as to be understandable to nonmathematics and nonscience majors and to foster an appreciation for the art, history, beauty, and applications of mathematics. Topics will be covered that allow students to do the mathematics involved without needing a strong mathematical background.

MATH 180 College Algebra
3 hours. An algebra course designed for students who have a good background in high school algebra and are prepared to cover the major topics of algebra in more depth and breadth. Applications of algebra will be emphasized in this course. This course does not serve as a prerequisite for the calculus sequence.
Prerequisite: high school algebra or equivalent.

MATH 190 Precalculus Mathematics
4 hours. A course for students who are preparing to take calculus or other courses requiring a similar background. In addition to studying the topics found in a college algebra course, this course will focus on trigonometry and an introduction to exponential and logarithmic functions.
Prerequisite: high school algebra or its equivalent. Students who have taken MATH 180 College Algebra may not take this course for credit.

MATH 201 Calculus I
4 hours. A study of differential and integral calculus for functions of one variable. Additional topics include polar coordinates, infinite series, and parametric equations.
Prerequisite: MATH 190 Precalculus Mathematics or equivalent.

MATH 202 Calculus II
4 hours. A study of differential and integral calculus for functions of one variable. Additional topics include polar coordinates, infinite series, and parametric equations.
Prerequisite: MATH 190 Precalculus Mathematics or equivalent.

MATH 211 Foundations of Elementary Mathematics I
4 hours. This course focuses on the development of the mathematical knowledge needed for teaching elementary and middle school mathematics. Topics include elementary number theory, arithmetic operations, and algebra, and the NCTM process strands of problem solving, representation, and communication. Additional course fee is required.

MATH 212 Foundations of Elementary Mathematics II
4 hours. This course focuses on the development of the mathematical knowledge needed for teaching elementary and middle school mathematics. Topics include geometry, measurement, data analysis, statistics, and probability, and the NCTM process strands of reasoning and proof and connections.
Prerequisite: MATH 211 Foundations of Elementary Mathematics I (4 semester hours).

MATH 240 Statistical Procedures
3 hours. An introduction to probability and statistics with content and application directed toward the natural and physical sciences. Topics to be covered include methods of describing data, probability, random variables and their distributions, estimation, hypothesis testing, linearregression, and correlation.
Prerequisite: MATH 180 College Algebra or equivalent.

MATH 260 Discrete Mathematics
3 hours. An introduction to discrete mathematics. Topics covered include sets, functions, math induction, combinatorics, recurrence, graph theory, trees, and networks.
Prerequisite: MATH 190 Precalculus Mathematics or equivalent.

MATH 275 Field Experience
1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: instructor's permission.

MATH 285 Selected Topics
1-3 hours. A class with topics in mathematics chosen to fit special needs orinterests of students, faculty, or visiting professors.
Prerequisite: instructor's permission.

MATH 290 Mathematical Logic
3 hours. This course is intended to facilitate a smooth transition from lower-level, computation-oriented math courses to upper-level, more theoretical courses. Topics include symbolic logic, methods of proof, and set theory.
Prerequisite: MATH 201 Calculus I.

MATH 300 Numerical Methods
3 hours. A study of numerical solutions of mathematical problems, including nonlinear equations, systems of linear equations, polynomial approximations, root finding, integration, and differential equations. Computer programs are written to solve these problems. (Identical to CSIS 300.)
Prerequisites: MATH 202 Calculus II and either CSIS 201 Introduction to Computer Science I or ENGR 152 Engineering Principles II.

MATH 301 Calculus III
3 hours. This course is an extension of MATH 201 and 202 Calculus I and II to functions of more than one variable. Topics include vectors, vector-valued functions, partial derivatives, and multiple integration.
Prerequisite: MATH 202 Calculus II.

MATH 310 Differential Equations with Linear Algebra
4 hours. A study of the theory, methods of solution, and applications of ordinary differential equations and the techniques of linear algebra necessary to accomplish that study.
Prerequisite: MATH 301 Calculus III.

MATH 320 Linear Algebra
3 hours. A study of matrices and their properties and application, linear transformations, and vector spaces.
Prerequisites: MATH 310 Differential Equations with Linear Algebra.

MATH 331 Probability
3 hours. A study of sample spaces, combinatorial methods, discrete and continuous distributions, moment-

generating functions, and the central limit theorem.
Prerequisite: MATH 301 Calculus III.

MATH 332 Mathematical Statistics
3 hours. A study of statistical methods - including estimators, confidence intervals, tests of statistical hypotheses, and correlation analyses - from a theoretical point of view, including applications.
Prerequisite: MATH 331 Probability.

MATH 340 Number Theory
3 hours. An introduction to the basic properties of whole numbers, including such topics as prime numbers, Euclid's algorithm, Fermat's Theorem, congruences, and Diophantine equations. The course will emphasize historical development of the relevant topics.
Prerequisites: MATH 202 Calculus II and MATH 290 Mathematical Logic.

MATH 350 Modern Geometry
3 hours. A rigorous study of Euclidean geometry and an introduction to non-Euclidean geometries.
Prerequisites: MATH 202 Calculus II and MATH 290 Mathematical Logic.

MATH 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

MATH 410 Algebraic Structures
3 hours. A study of groups, rings, integral domains, fields,polynomial rings, and algebraic number systems.
Prerequisites: MATH 202 Calculus II and MATH 290 Mathematical Logic.

MATH 420 Real Analysis
3 hours. An introduction to the fundamental concepts in real analysis including limits, continuity, sequences, series, differentiation, and integration.
Prerequisites: MATH 290 Mathematical Logic and MATH 301 Calculus III.

MATH 475 Field Experience
1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This advanced experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: instructor's permission.

MATH 485 Selected Topics
1-3 hours. A class with topics in mathematics chosen to fit special needs orinterests of students, faculty, or visiting professors.
Prerequisite: instructor's permission.

MATH 490 Senior Seminar
2 hours. A seminar for junior and senior math majors to explore current topics selected by the instructor. Emphasis will be placed on significant student involvement in the classroom.
Prerequisite: junior or senior status.

MATH 495 Special Study

1-3 hours. Independent study of mathematical topics outside the regular offerings. Topics include advanced calculus, mathematical statistics, topology, real and complex analysis, and others.
Prerequisite: upper-division mathematics majors, and by permission.

MUSA (Music, Applied and Ensembles)
Applied Music and Ensembles

MUSA 105 VC Applied Voice
1/2 or 1 hour. Study of proper voice production, with emphasis on posture, breathing, and resonance. Studies from the standard repertoires, including English songs, Italian classics, German lieder, French art songs, oratorio and operatic arias, and selected contemporary works. Additional course fee is required.

MUSA 105 PN Applied Piano
1/2 or 1 hour. Technical exercises, scales, and arpeggios in various rhythms; Ã©tudes of varying difficulty, such as those by Duvernoy, Burgmuller, Heller, Czerny, and Clementi. Repertoire from the historical periods are studied, including selected contemporary composers. A select group of concerti are also studied. Additional course fee is required.

MUSA 105 OR Applied Organ
1/2 or 1 hour. Basic study of pedal and manual techniques. Standard works from the Baroque, Classic, Romantic, and Modern periods. Additional course fee is required.

MUSA 105 ST Applied Strings
1/2 or 1 hour. Instruction on violin, viola, cello, and string bass. Basic fundamentals, posture, bow, and arm techniques, shifting, and vibrato. Included are scale and arpeggio studies and works from the standard solo and orchestral repertoire. Additional course fee is required.

MUSA 105 WW Applied Woodwinds
1/2 or 1 hour. Instruction on flute, clarinet, oboe, saxophone, and bassoon. Tone production, scales, and arpeggios in various articulations. Includes technical studies and works from the standard solo and orchestral repertoire. Additional course fee is required.

MUSA 105 BR Applied Brass
1/2 or 1 hour. Instruction on trumpet, French horn, trombone, baritone, and tuba. Technical studies include tone production, scales, and arpeggios with various articulation. Works from the standard solo and orchestral repertoire are studied. Additional course fee is required.

MUSA 105 PR Applied Percussion
1/2 or 1 hour. Instruction on snare drum, tympani, the mallet instruments, and drum set. An in-depth study of all the percussion instruments used in the wind ensemble and orchestra. Additional course fee is required.

MUSA 105 GT Applied Guitar
1/2 or 1 hour. Study of playing techniques, with emphasis on chordal knowledge and basic strums. Solos and ensemble pieces will be included for each student at his or her performance level. Additional course fee is required.

MUSA 105 JZ Applied Jazz Piano
1/2 or 1 hour. A study of improvisational methods through task-oriented performance of selected jazz repertoire. The goal of this class is to introduce concepts and practice methods used by jazz artists to gain

provisation skills and to apply them to your own practice and performance over selected jazz repertoire. Additional course fee is required.

MUSA 305 VC Applied Voice
1/2 or 1 hour. Study of proper voice production, with emphasis on posture, breathing, and resonance. Studies from the standard repertoires, including English songs, Italian classics, German lieder, French art songs, oratorio and operatic arias, and selected contemporary works. Additional course fee is required.

MUSA 305 PN Applied Piano
1/2 or 1 hour. Technical exercises, scales, and arpeggios in various rhythms; Ã*f* ©tudes of varying difficulty, such as those by Duvernoy, Burgmuller, Heller, Czerny, and Clementi. Repertoire from the historical periods are studied, including selected contemporary composers. A select group of concerti are also studied. Additional course fee is required.

MUSA 305 OR Applied Organ
1/2 or 1 hour. Basic study of pedal and manual techniques. Standard works from the Baroque, Classic, Romantic, and Modern periods. Additional course fee is required.

MUSA 305 ST Applied Strings
1/2 or 1 hour. Instruction on violin, viola, cello, and string bass. Basic fundamentals, posture, bow, and arm techniques, shifting, and vibrato. Included are scale and arpeggio studies and works from the standard solo and orchestral repertoire. Additional course fee is required.

MUSA 305 WW Applied Woodwinds
1/2 or 1 hour. Instruction on flute, clarinet, oboe, saxophone, and bassoon. Tone production, scales, and arpeggios in various articulations. Includes technical studies and works from the standard solo and orchestral repertoire. Additional course fee is required.

MUSA 305 BR Applied Brass
1/2 or 1 hour. Instruction on trumpet, French horn, trombone, baritone, and tuba. Technical studies include tone production, scales, and arpeggios with various articulation. Works from the standard solo and orchestral repertoire are studied. Additional course fee is required.

MUSA 305 PR Applied Percussion
1/2 or 1 hour. Instruction on snare drum, tympani, the mallet instruments, and drum set. An in-depth study of all the percussion instruments used in the wind ensemble and orchestra. Additional course fee is required.

MUSA 305 GT Applied Guitar
1/2 or 1 hour. Study of playing techniques, with emphasis on chordal knowledge and basic strums. Solos and ensemble pieces will be included for each student at his or her performance level. Additional course fee is required.

MUSA 305 JZ Applied Jazz Piano
1/2 or 1 hour. A study of improvisational methods through task-oriented performance of selected jazz repertoire. The goal of this class is to introduce concepts and practice methods used by jazz artists to gain provisation skills and to apply them to your own practice and performance over selected jazz repertoire. Additional course fee is required.

Ensembles

MUSA 115 Master Chorus

1/2 hour. This chorus is composed of members of the community and open to all university students, faculty, staff, and alumni singers. The chorus, usually accompanied by orchestra, performs a major and/or master sacred choral work each spring. Handel's *Messiah* is usually performed every third year.

MUSA 125C Concert Choir
1/2 or 1 hour. The Concert Choir is committed to excellent choral singing in a wide variety of styles, including contemporary sacred and gospel arrangements, spirituals, and hymn settings. The choir's combined commitment to excellence and ministry finds expression in concerts given on campus and in churches throughout the Northwest. Rehearsals are held four days a week.
Prerequisite: audition.

MUSA 125T Music Theatre
1/2 or 1 hour. Membership is open to all students interested in the production aspects of theatre. This organization offers one major presentation each spring. Works performed include Broadway musicals, light opera, music reviews, and an occasional opera. Orchestra accompaniment generally is used, and productions are completely staged, choreographed, costumed, and lighted.
Prerequisite: chorus members and leading roles are selected by audition.

MUSA 135A Chamber Singers
1/2 hour. This ensemble sings a flexible repertoire ranging from Renaissance madrigals through contemporary vocal jazz settings and Christian contemporary gospel. Members present concerts in the Portland region and participate in various campus concerts.
Prerequisite: audition and concurrent enrollment in Concert Choir.

MUSA 135B Chorale
1/2 hour. A chorus of men's and/or women's voices using a variety of sacred and secular literature that is appropriate to members' skill level. Students learn proper tone production and sight-reading skills and experience rehearsal techniques that will prepare them for Concert Choir and/or singing beyond graduation. This class meets twice a week.
Prerequisite: instructor's permission at the beginning of each semester.

MUSA 135H George Fox University Handbell Ringers
1/2 hour. This musical ensemble shares its music with community agencies, churches, and university audiences. Limited to 11 ringers.
Prerequisite: audition/interview.

MUSA 135J Vocal Jazz Ensemble
1/2 hour. A vocal ensemble and rhythm section specializing in the preparation, study, and performance of vocal jazz. Performances are usually for university events and some off-campus concerts. Vocalists will learn to improvise and sing with style and tone appropriate to the idiom. Rhythm section players will learn how to effectively accompany, improvise, and play as a trio.
Prerequisite: audition, instructor's permission, and concurrently enrolled in major ensembles.

MUSA 145B Symphonic Band
1/2 or 1 hour. The Symphonic Band is a touring ensemble that plays concerts throughout the Northwest. The spring tour repertoire is played in schools, churches, and for chapel. This ensemble serves to train students for careers in instrumental conducting and performing.
Prerequisite: instructor's permission.

MUSA 145J Jazz Ensemble
1/2 hour. An ensemble organized to train instrumentalists in the jazz repertoire. Performances are usually

for school events and some off-campus concerts.
Prerequisite: members who are music majors must also be enrolled in the Symphonic Band.

MUSA 145K Keyboard Ensemble
1/2 hour. Open to any piano student, regardless of major. The repertoire includes all styles, with emphasis on pieces composed for multiple keyboards. Participants share in performance opportunities. For music majors who are not vocal students or do not play band or orchestral instruments, the course will satisfy the "major ensemble" requirement.
Prerequisite: audition or instructor's permission.

MUSA 155 Chehalem Symphony Orchestra
1/2 or 1 hour. The symphony orchestra performs music by the master composers of the Baroque, Classical, Romantic, and Modern eras. Concertos featuring student soloists are often part of the annual repertoire. Community and faculty musicians combine with university students to form this ensemble. Performances include fall and spring concerts, as well as accompaniment of the Master Chorus.
Prerequisite: instructor's permission.

MUSA 165 Instrumental Ensemble
1/2 hour. An ensemble organized to meet the needs of the instrumental music student who desires to explore literature for the small ensemble, such as string quartet, brass quartet, woodwind quintet, or flute ensemble.

MUSA 315 Master Chorus
1/2 hour. This chorus is composed of members of the community and open to all university students, faculty, staff, and alumni singers. The chorus, usually accompanied by orchestra, performs a major and/or master sacred choral work each spring. Handel's *Messiah* is usually performed every third year.

MUSA 325C Concert Choir
1/2 or 1 hour. The Concert Choir is committed to excellent choral singing in a wide variety of styles, including contemporary sacred and gospel arrangements, spirituals, and hymn settings. The choir's combined commitment to excellence and ministry finds expression in concerts given on campus and in churches throughout the Northwest. Rehearsals are held four days a week.
Prerequisite: audition.

MUSA 325T Music Theatre
1/2 or 1 hour. Membership is open to all students interested in the production aspects of theatre. This organization offers one major presentation each spring. Works performed include Broadway musicals, light opera, music reviews, and an occasional opera. Orchestra accompaniment generally is used, and productions are completely staged, choreographed, costumed, and lighted.
Prerequisite: chorus members and leading roles are selected by audition.

MUSA 335A Chamber Singers
1/2 hour. This ensemble sings a flexible repertoire ranging from Renaissance madrigals through contemporary vocal jazz settings and Christian contemporary gospel. Members present concerts in the Portland region and participate in various campus concerts.
Prerequisite: audition and concurrent enrollment in Concert Choir.

MUSA 335B Chorale
1/2 hour. A chorus of men's and/or women's voices using a variety of sacred and secular literature that is appropriate to members' skill level. Students learn proper tone production and sight-reading skills and experience rehearsal techniques that will prepare them for Concert Choir and/or singing beyond

graduation. This class meets twice a week.
Prerequisite: instructor's permission at the beginning of each semester.

MUSA 335H George Fox University Handbell Ringers
1/2 hour. This musical ensemble shares its music with community agencies, churches, and university audiences. Limited to 11 ringers.
Prerequisite: audition/interview.

MUSA 335J Vocal Jazz Ensemble
1/2 hour. A vocal ensemble and rhythm section specializing in the preparation, study, and performance of vocal jazz. Performances are usually for university events and some off-campus concerts. Vocalists will learn to improvise and sing with style and tone appropriate to the idiom. Rhythm section players will learn how to effectively accompany, improvise, and play as a trio.
Prerequisite: audition, instructor's permission, and concurrently enrolled in major ensembles.

MUSA 345B Symphonic Band
1/2 or 1 hour. The Symphonic Band is a touring ensemble that plays concerts throughout the Northwest. The spring tour repertoire is played in schools, churches, and for chapel. This ensemble serves to train students for careers in instrumental conducting and performing.
Prerequisite: instructor's permission.

MUSA 345J Jazz Ensemble
1/2 hour. An ensemble organized to train instrumentalists in the jazz repertoire. Performances are usually for school events and some off-campus concerts.
Prerequisite: members who are music majors must also be enrolled in the Symphonic Band.

MUSA 345K Keyboard Ensemble
1/2 hour. Open to any piano student, regardless of major. The repertoire includes all styles, with emphasis on pieces composed for multiple keyboards. Participants share in performance opportunities. For music majors who are not vocal students or do not play band or orchestral instruments, the course will satisfy the "major ensemble" requirement.
Prerequisite: audition or instructor's permission.

MUSA 355 Chehalem Symphony Orchestra
1/2 or 1 hour. The symphony orchestra performs music by the master composers of the Baroque, Classical, Romantic, and Modern eras. Concertos featuring student soloists are often part of the annual repertoire. Community and faculty musicians combine with university students to form this ensemble. Performances include fall and spring concerts, as well as accompaniment of the Master Chorus.
Prerequisite: instructor's permission.

MUSA 365 Instrumental Ensemble
1/2 hour. An ensemble organized to meet the needs of the instrumental music student who desires to explore literature for the small ensemble, such as string quartet, brass quartet, woodwind quintet, or flute ensemble.

MUSI (Music , Theory and Literature)
Music Theory and Literature

MUSI 100 Music Fundamentals
2 hours. This course provides a fundamental understanding of music by considering the basics of musical

construction, with examples drawn from the history of music. A study of musical notation, interval recognition, elements of pitch and rhythm, scale and chord construction, essential concepts in harmony, and basic musical forms. The student will be able to experience these fundamental concepts at the piano. No musical or keyboard experience is necessary. This is a general education course for non-music majors.

MUSI 110 Understanding Jazz
2 hours. A study of various aspects and types of jazz, from blues to jazz rock. Students will discover the great jazz artists and learn how to listen to a variety of jazz idioms.

MUSI *120 The World of Music*
2 hours. This course acquaints the liberal arts student with a broad range of musical styles reflecting diverse cultures, including classical, jazz, and popular music. Various composers, performers, and their music are listened to and studied. This is a general education course for non-music majors.

MUSI 121 Theory I
3 hours. A course designed to help the student systematically acquire basic information and interrelated skills that will be of value in future musical endeavors as performer, teacher, or composer. Includes work in part writing, keyboard harmony, analysis, and creative writing.
Corequisite: MUSI 131 Sight Singing and Ear Training I.

MUSI 122 Theory II
3 hours. A course designed to help the student systematically acquire basic information and interrelated skills that will be of value in future musical endeavors as performer, teacher, or composer. Includes work in part writing, keyboard harmony, analysis, and creative writing.
Corequisite: MUSI 132 Sight Singing and Ear Training II. Prerequisite: MUSI 121 Theory I.

MUSI 125 Voice Class
1 hour. May be repeated for credit. This course is intended to improve and strengthen the voice as a solo instrument. The ability to read music is helpful although not necessary. Attendance and class participation coupled with a minimum of four 15- to 30-minute individual practice sessions each week will enable consistent growth and increased strength. Students will sing individually to the group using exercises and songs worked on in class. The group format and class size provide an excellent built-in performance opportunity.

MUSI 130 Music in World Cultures
2 hours. An introductory thematic study of the roles of music in a variety of world cultures, with emphasis on listening to, viewing, and understanding a broad selection of musical styles mostly outside the Western classical tradition.

MUSI 131 Sight Singing and Ear Training I
1 hour. A lab experience designed to develop proficiency in singing prepared melodies, melodies at sight, rhythmic patterns, and in taking basic melodic dictation.
Corequisite: MUSI 121 Theory I.

MUSI 132 Sight Singing and Ear Training II
1 hour. A lab experience designed to develop proficiency in singing prepared melodies, melodies at sight, rhythmic patterns, and in taking basic melodic dictation.
Corequisite: MUSI 122 Theory II.

MUSI 135 Class Piano
1 hour. May be repeated for credit. Elementary- to intermediate-level class instruction in piano. This class is

open to any student regardless of previous experience and does not require an instruction fee in addition to the normal tuition cost. Students working toward achieving the required piano proficiency may choose to study private applied piano with the instructor's consent rather than enroll for Class Piano. Required of all music majors who have not yet met the piano proficiency skill level.

MUSI 150 Keyboard Accompaniment
1 hour. This course provides "on-the-job training" and special insights and skills in the art of accompanying. A wide range of repertoire is studied, from accompanying classical solo artists to accompanying choirs (both classical and gospel), small ensembles, and congregational singing.

MUSI 180 Introduction to Music Technology
2 hours. Introductory work with technological resources basic to work in the music field. Includes hands-on experience with MIDI and sequencing, music notation programs and desktop publishing, digital sound formats, and basic Web authoring.

MUSI 190 Foundations of Music Education
1 hour. Required for Music Education Majors. This course will lay the foundation for all music education courses that will be taken after. In this course students will explore what it means to be a music educator and as the course continues they will delve into the teaching process. Course content will include preparing and executing short teaching episodes, guided observation of master teachers in the field and keeping a journal of all activities done in the class. All students will join George Fox's Collegiate Music Educators National Conference chapter and will participate in the Oregon Music Educators Conference.

MUSI 200 Basic Conducting
1 1/2 hours. Introduction to the basic fundamentals of conducting for the music major, the music education major, and the future church musician. Emphasis is placed upon the mastery of simple conducting patterns, cues, and expressive gestures, and on common problems in leading group singing and in directing musical ensembles.

MUSI 210 Keyboard Literature
2 hours. Through a variety of keyboard music (harpsichord, piano, organ, and synthesizer), students will acquire an understanding of diverse keyboard approaches from the Baroque through contemporary styles. Recommended for those especially interested in keyboard music.

MUSI 221 Theory III
4 hours. A continuation of Theory II. Includes chromatic harmonies and remote modulations. Introduction to 20th-century harmonic usage. Creative work is required.
Prerequisite: MUSI 122 Theory II.

MUSI 222 Theory IV
4 hours. A continuation of Theory III. Includes chromatic harmonies and remote modulations. Introduction to 20th-century harmonic usage. Creative work is required.
Prerequisite: MUSI 221 Theory III.

MUSI 225 Composition I
1 hour. Individual lessons in composition. Initial inquiry into organization of sound resources, developing techniques for working with musical materials, and composition in small forms. May be repeated for credit.
Prerequisites: MUSI 122 Theory II and MUSI 132 Sight Singing and Ear Training II, or instructor's permission.

MUSI 240 Body Mapping and Movement for Musicians
1 hour. Students will learn how to apply Alexander Technique and Andover Body Mapping principles to

musical performance. The course strives to guide students to freedom and ease in body use to avoid injury and pain in music making.

MUSI 250 Beginning Class Guitar
1 hour. This course offers vital foundational instruction in the techniques of playing guitar. Proper hand position, fingering, and strumming styles, and a broad range of chords are presented. Learn to read music, tab, and understand basic concepts of theory. Have fun playing cool riffs, chord progressions, and songs. Ideal for learning techniques applicable to leading worship.

MUSI 270 Music Techniques Instrumental I
1 hour. Fundamental instruction in the technique required to play music instruments at an intermediate level. Attention will be given to the technical aspects of music performance with an emphasis on the various demands related to teaching instrumentalists.
Prerequisites: MUSI 121 Theory I and MUSI 122 Theory II.

MUSI 271 Music Techniques Instrumental II
1 hour. Fundamental instruction in the technique required to play music instruments at an intermediate level. Attention will be given to the technical aspects of music performance with an emphasis on the various demands related to teaching instrumentalists.
Prerequisites: MUSI 121 Theory I and MUSI 122 Theory II. (MUSI 270 is not a prerequisite for MUSI 271.)

MUSI 272 Music Techniques Vocal
1 hour. This course is designed to present a practical program to explain the physical, technical, and artistic aspects of singing combining historical pedagogy with current research in acoustics and the physiology of the human voice. We will explore how to coordinate the activities of resonation, articulation, vibration, and energization of the system to produce a freely functioning voice. Students will increase their aural awareness and understand the distinction between speaking and singing. They will learn to problem-solve and diagnose vocal stress in the role of teacher, observer, and student.
Prerequisite: MUSA 105 VC Applied Voice or MUSA 305 VC Applied Voice or MUSI 125 Voice Class. (MUSI 270 and MUSI 271 are not prerequisites for MUSI 272.)

MUSI 273 Instrumental Music Techniques for Choral Conductors
1 hour. A technical overview of woodwind, brass, string, and percussion instruments designed for choral music education students. Emphasis on helping the student troubleshoot and teach the fundamentals of instrumental music.

MUSI 275 Field Experience
1-5 hours. Supervised experience in music apprenticeship as conductor, performer, or composer.
Prerequisite: permission of music faculty.

MUSI 280 Vocal Diction
1 hour. The purpose of this course is to prepare students to sing accurately, idiomatically and expressively in English, Latin, Italian, French and German. Elements of lyric diction will be presented in ways that stress their connection to the meaning, color, and expressive power of the text. We will use the International Phonetic Alphabet as a means of presenting and reinforcing the "sonic vocabulary" as well as rudiments of grammar and vocabulary that will enable the student to present the text clearly and with poetic intent. Music studied will be performed in class.

MUSI 285 Selected Topics
1-3 hours. Selected topics are offered as music electives when special needs arise or when sufficient enrollment permits. Course content includes specific interests of students and faculty.

MUSI 310 Counterpoint
2 hours. Principles of 16th- and 18th-century polyphony. Detailed study of the works of J.S. Bach and his contemporaries. Original composition required.
Prerequisites: MUSI 221 Theory III and MUSI 222 Theory IV.

MUSI 311 Music History I
3 hours. A study of the development of music from antiquity through the 20th century. Comparisons are made to the development of the other arts. Concentrated study of music literature emphasizing the change in musical styles during the different historical periods.
Prerequisites: MUSI 121 Theory I and MUSI 122 Theory II.

MUSI 312 Music History II
3 hours. A study of the development of music from antiquity through the 20th century. Comparisons are made to the development of the other arts. Concentrated study of music literature emphasizing the change in musical styles during the different historical periods.
Prerequisite: MUSI 311 Music History I.

MUSI 320 Form and Analysis
2 hours. Detailed study of the structural components of music, including the motive, phrase, and period. Application to principal contrapuntal and homophonic forms of the Classic, Romantic, and Modern periods.
Prerequisites: MUSI 221 Theory III and MUSI 222 Theory IV.

MUSI 340 Church Music (History and Administration)
3 hours. A study of music within the church, viewed historically from the early centuries through the expectations of the contemporary church.

MUSI 350 Music Theatre Performance
3 hours. An introduction to the acting, dance, and vocal techniques required for music theatre performance and a formal study of the history of music theatre. Through in-depth scene study, vocal training, dance training, and in class performances, the student will be introduced to the various artistic challenges inherent in music theatre since its inception. This course requires additional outside-of-class time for rehearsals and performance of selected material. Additional course fee is required. (Identical to THEA 350).
Prerequisites: THEA 100 Acting I - Fundamentals and MUSA 105 VC Applied Voice or MUSA 305 VC Applied Voice or MUSA 125T Music Theatre or MUSA 325T Music Theatre.

MUSI 380 Keyboard Improvisation and Service Playing
2 hours. A practical course for pianists and organists seeking to discover creative approaches in programming and leading the congregation in inspirational worship and celebration.

MUSI 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

MUSI 400 Music and Christian Faith
2 hours. A study of the relationships between musical communication and Christian faith and practice. Also includes some preparatory modules for senior recital.
Prerequisites: MUSI 222 Theory IV and MUSI 312 Music History II or equivalents, and junior or senior standing.

MUSI 410 Elementary Music Methods
3 hours. Students will be introduced to the foundations of elementary music education including the National Standards and current teaching methodologies. Student observation and participation will provide the basis of an understanding of teaching music at the elementary level.
Prerequisites: MUSI 121 Theory I and MUSI 122 Theory II.

MUSI 411 Middle Level and High School Music Methods
3 hours. Students will investigate the many special teaching demands of music education at the secondary level. Vocal and instrumental music ensembles will be studied to determine the special requirements of these performance groups. Music courses at the secondary level will be examined to determine their individual teaching methodologies.
Prerequisites: MUSI 121 Theory I and MUSI 122 Theory II.

MUSI 425 Composition II
1 1/2 hours. Individual lessons in composition. Continuing work in composition including (but not limited to) composition in larger forms, digital media, multimovement forms, exploration of style resources.
Prerequisites: MUSI 225 Composition I and admission to upper-division study, or instructor's permission.

MUSI 430 Instrumentation and Orchestration
2 hours. A study of the instruments of the orchestra and band, including their ranges, characteristics, and capabilities. Practical application of the principles of arranging and scoring for orchestral/band instrumental combinations.
Prerequisites: MUSI 221 Theory III and MUSI 222 Theory IV.

MUSI 460 Advanced Conducting
2 hours. A course designed to acquaint the student with advanced choral and instrumental literature. Basic conducting patterns are reviewed and adapted to all aspects of conducting: syncopation, cuing, and expressive gestures.
Prerequisite: MUSI 200 Basic Conducting.

MUSI 475 Field Experience
1-5 hours. Supervised experience in music apprenticeship as conductor, performer, or composer.
Prerequisite: permission of music faculty.

MUSI 485 Selected Topics
1-3 hours. Selected topics are offered as music electives when special needs arise or when sufficient enrollment permits. Course content includes specific interests of students and faculty.

MUSI 490 Degree Recital/Project
1 hour. Students prepare a project in cooperation with a faculty advisor. The project is presented before an audience and filed permanently in the music department.

MUSI 495 Special Study
1-3 hours. Individual research under the guidance of the faculty.
Prerequisite: permission of music faculty.

NURS (Nursing)
Nursing

NURS 200 Nursing Fundamentals
2 hours. Exposes students to theories concerning clients in need of primary, acute, and restorative nursing care through the introduction of basic nursing concepts, skills, and techniques of nursing practice, and provides students with a foundation for advanced nursing practice in a variety of health care settings.
Prerequisite: admission to nursing major.

NURS 203 Nursing Fundamentals Practicum
2 hours. Application of health assessment and basic nursing skills in the care of individuals experiencing alterations in biopsychosocial, cultural, and spiritual health status. Additional course fee is required.
Corequisites: NURS 200 Nursing Fundamentals, NURS 210 Health Assessment.

NURS 210 Health Assessment
2 hours. The systematic and continuous collection of biopsychosocial, cultural, and spiritual data through the assessment of clients' strengths and coping resources, actual and potential health problems, and the identification of factors that place clients at risk for alterations in health.
Prerequisite: admission to nursing major.

NURS 275 Field Experience
1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: instructor's permission.

NURS 285 Selected Topics
*1-3 hours.*An introductory seminar offered on an occasional basis addressing a current topic in the field that is of special interest to students and current faculty.

NURS 300 Medical-Surgical Nursing I
3 hours. The acquisition, integration, and prioritization of theoretical knowledge vital to the care of individuals and groups experiencing alterations in pathophysiological processes of human illnesses and injuries.
Corequisites: NURS 303 Medical-Surgical Nursing I Practicum, NURS 330 Nursing Research, NURS 350 Pharmacology. Prerequisites: junior status, NURS 200 Nursing Fundamentals, NURS 203 Nursing Fundamentals Practicum, NURS 210 Health Assessment.

NURS 303 Medical-Surgical Nursing I Practicum
3 hours. Implementation of theoretical knowledge vital to the care of individuals and groups experiencing alterations in pathophysiological processes of human illnesses and injuries. Additional course fee is required.
Corequisite: NURS 300 Medical-Surgical Nursing I.

NURS 320 Medical-Surgical Nursing II
3 hours. The acquisition, integration, and prioritization of evidence-based nursing knowledge critical to the care of individuals and families with complex pathophysiological alterations in their biopsychosocial health status.
Corequisites: NURS 340 Mental Health Nursing, NURS 343 Mental Health Nursing Practicum. Prerequisites: NURS 300 Medical-Surgical Nursing I, NURS 303 Medical-Surgical Nursing I Practicum, NURS 330 Nursing Research, NURS 350 Pharmacology.

NURS 323 Medical-Surgical Nursing II Practicum
3 hours. Acquisition, synthesis, and implementation of theoretical knowledge necessary for the provision of holistic care to individuals and groups experiencing complex pathophysiological alterations in their health status. Additional course fee is required.
Corequisite: NURS 320 Medical-Surgical Nursing II.

NURS 330 Nursing Research
2 hours. An exploration of systematic approaches (quantitative and qualitative) to collecting and analyzing information to enhance students' understanding of factors and phenomena impacting professional nursing practice.
Prerequisite: junior status and completion of an approved statistics course.

NURS 340 Mental Health Nursing
2 hours. Exploration of psychiatric nursing principles of mental health promotion and illness prevention; of evidenced-based treatment modalities; of hospital and community treatment options; and of nursing principles applied to specific psychiatric clinical disorders.
Corequisites: NURS 320 Medical-Surgical Nursing II, NURS 323 Medical-Surgical Nursing Practicum II. Prerequisite: junior status.

NURS 343 Mental Health Nursing Practicum
3 hours. Implementation of theoretical psychiatric nursing principles in the practice setting.
Corequisites: NURS 320 Medical-Surgical Nursing II, NURS 323 Medical-Surgical Nursing Practicum II, NURS 340 Mental Health Nursing.

NURS 350 Pharmacology
3 hours. A study of various drug classifications, their impact on living tissue, and their actions and distributions in the body - pharmacodynamics and pharmacokinetics.
Prerequisites: NURS 200 Nursing Fundamentals, NURS 203 Nursing Fundamentals Practicum, NURS 210 Health Assessment, or permission of instructor.

NURS 360 Health Promotion
3 hours. "Health is the state of complete physical, mental, and social well-being and not merely the absence of disease or infirmity" (WHO, 1947). The practice of nursing is guided by one's understanding of factors that impact a client's beliefs about health. This course will explore the impact of epidemiological concepts and health promotion theories in the promotion of health in individuals and communities.
Prerequisite: junior status or permission of instructor.

NURS 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

NURS 400 Public Health Nursing
2 hours. The synthesis of nursing theory and public health theory applied to promoting, preserving, and maintaining the health of populations through the delivery of personal health care services to individuals, families, and groups.
Prerequisite: all nursing courses at junior level.

NURS 403 Public Health Nursing Practicum
3 hours. Application of nursing theory and public health theory in the care of individuals, families, and groups in the community.
Corequisite: NURS 400 Public Health Nursing.

NURS 410 Nursing Administration/Leadership
2 hours. The study of the contemporary role(s) of an effective nurse leader/administrator/manager as they assess, plan, organize, implement, and evaluate care for groups in acute, primary, and/or community health settings.
Prerequisite: all nursing courses at junior level.

NURS 413 Nursing Administration/Leadership Practicum
3 hours. Facilitate student's transition into the professional role(s) through implementation of leadership theories in acute, primary, and/or community health settings. Additional course fee is required.
Corequisite: NURS 410 Nursing Administration/Leadership.

NURS 420 Maternity Nursing
2 hours. Study of the care of childbearing women and their families throughout all the stages of pregnancy and childbirth.
Prerequisite: all nursing courses at junior level.

NURS 423 Maternity Nursing Practicum
3 hours. are of women and their families during the events surrounding childbearing. Additional course fee is required.
Corequisite: NURS 420 Maternity Nursing.

NURS 475 Field Experience
1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This advanced experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: instructor's permission.

NURS 485 Selected Topics
1-3 hours. An advanced seminar offered on an occasional basis addressing a current topic in the field that is of special interest to students and current faculty.

PHIL (Philosophy)
Philosophy

PHIL 210 Introduction to Philosophy
3 hours. This introduction to philosophical issues encompasses study of the human quest to understand the meaning of knowledge, art, nature, God, values, and other vital interests. Lectures and reading will introduce the student to the major systems of philosophy developed by thoughtful people over the centuries.

PHIL 230 Ethics
3 hours. Ethics consists of an analysis of the ethical theories and systems by which persons make judgments and choices, with special attention to contemporary moral issues and the modern revival of virtue theory.

PHIL 270 Philosophy of the Arts

3 hours. An introduction to philosophical issues in the arts, such as art and morality, the nature of creativity, aesthetics, and the relation of the arts to worldviews.

PHIL 275 Field Experience
1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: instructor's permission.

PHIL 280 Introduction to Political Philosophy
3 hours. A study of great political thinkers and issues from Socrates to the present. Students are encouraged to understand and evaluate these thinkers in their historical contexts, and to consider them as philosophers whose insights are relevant for contemporary debates. (Identical to HIST 280 and PSCI 280.)

PHIL 285 Selected Topics
1-3 hours. A seminar on a topic chosen by the professor. Recent topics have been apologetics; postmodern philosophy and Christian thought; philosophy of science; philosophy of E. Levinas; and philosophy of sex, singleness, and marriage.
Prerequisite: upper-division majors and others by permission.

PHIL 300 American Political Theory
3 hours. A survey of the major developments in U.S. political theory from the Puritans to the present. The relationship between Christianity and American political theory is given special attention. (Identical to HIST 300 and PSCI 300.)

PHIL 310 Christian Apologetics
3 hours. A study of classic and contemporary theistic/atheistic arguments including postmodern assessments of religious belief. (Identical to RELI 310.)

PHIL 330 Philosophy of Religion
3 hours. Examines classic topics in the field, including theistic arguments, the problem of evil, miracles, religious language, and divine attributes.

PHIL 340 Logic
3 hours. Logic involves a study of Aristotelian forms of deductive reasoning, including the syllogism, inductive reasoning, fallacies, and some aspect of symbolic logic, including Venn diagrams, and truth tables. Its goal is to facilitate sound thinking that is both creative and critical.

PHIL 373 Social Theory
3 hours. A critical study of some major social philosophers from Comte to the present. (Identical to SOCI 373.)
Prerequisites: SOCI 150 Principles of Sociology or PHIL 210 Introduction to Philosophy, or instructor's permission.

PHIL 380 History of Philosophy Survey
3 hours. A one-semester survey of the history of Western philosophy. Emphasizes the connections and contrasts between historical periods.

PHIL 382 History of Philosophy Seminar
3 hours. Examines a particular period in the history of philosophy (e.g. Ancient, Medieval, Enlightenment, 19th Century). Choice of period determined by student interest and professorial competence.
Prerequisite: a philosophy course other than PHIL 340 Logic or instructor's permission.

PHIL 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

PHIL *415 Contemporary Philosophers and Problems*
3 hours. A study of significant 20th-century philosophers and selected philosophical issues in recent literature. Recent topics have been Alvin Plantinga, Wendell Berry, Nelson Goodman, and Karl Popper.
Prerequisite: a philosophy course other than PHIL 340 Logic or instructor's permission.

PHIL 475 Field Experience
1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This advanced experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: instructor's permission.

PHIL 485 Selected Topics
1-3 hours. A seminar on a topic chosen by the professor. Recent topics have been apologetics; postmodern philosophy and Christian thought; philosophy of science; philosophy of E. Levinas; and philosophy of sex, singleness, and marriage.
Prerequisite: upper-division majors and others by permission.

PHIL 495 Special Study
1-3 hours. Individual research.
Prerequisite: open to qualified students upon application.

PHYS (Physics)
Physics

PHYS 150 Physics of Everyday Life
3 hours. A relevant and practical introduction to everyday physical phenomena through a conceptual survey of various physics topics, including motion, energy, sound, light, electricity, and relativity. No mathematical background is required. This course meets the general education requirement and is designed for nonscience majors. Two lectures and one laboratory period per week. Additional course fee is required.

PHYS 190 Astronomy
3 hours. An introduction to astronomy covering the solar system, stars, galaxies, and cosmology. The historical context of astronomy will be addressed along with its complex and dynamic relation to faith. The laboratory experience will allow a firsthand experience with some of the pivotal observations and experiments of astronomy. This course fulfills the general education requirement. Two lectures and one two-hour laboratory per week. Additional course fee is required.

PHYS 201 General Physics I
4 hours. Mechanics, thermodynamics, electricity and magnetism, wave motion and optics, and modern physics, using algebraic methods for analysis. Three lectures and one lab per week. Additional course fee is required.
Prerequisite: MATH 190 Precalculus Mathematics.

PHYS 202 General Physics II
4 hours. Mechanics, thermodynamics, electricity and magnetism, wave motion and optics, and modern physics, using algebraic methods for analysis. Three lectures and one lab per week. Additional course fee is required.
Prerequisite: PHYS 201 General Physics I.

PHYS 211 General Physics with Calculus I
4 hours. Mechanics, thermodynamics, electricity and magnetism, wave motion and optics, and modern physics, using calculus methods for analysis. Three lectures and one lab per week. Additional course fee is required.
Prerequisite: MATH 201 Calculus I.

PHYS 212 General Physics with Calculus II
4 hours. Mechanics, thermodynamics, electricity and magnetism, wave motion and optics, and modern physics, using calculus methods for analysis. Three lectures and one lab per week. Additional course fee is required.
Prerequisite: PHYS 211 General Physics with Calculus I.

PSCI (Political Science)
Political Science

PSCI 150 Introduction to Political Science
3 hours. An introduction to the study of the use of political processes to decide public policy and the distribution of resources within and among communities and nations. Systems of government, and individual behaviors and informal political processes within those systems, will be examined using examples from various parts of the world throughout history. In the process, students will begin to explore the major questions of political philosophy, civic leadership, and Christian public ethics.

PSCI 190 American Government
3 hours. The theory and practice of the federal government and the study of key issues in government in general.

PSCI 220 War and Conscience in the United States
3 hours. An exploration of American thought on the subject of war, both today and in past crises such as the American Revolution, Civil War, wars with the American Indians, and the world wars; a study of the official position major church bodies have taken in regard to war; and the experiences of individuals who refused to fight. (Identical to HIST 220.)

PSCI 230 Introduction to International Relations
3 hours. Introduction to the principles and study of interstate relations in the contemporary world. Special attention is given to the issues of sovereignty, the United Nations, and international law. (Identical to INTL 230.)

PSCI 240 State and Local Government
3 hours. The origins, evolution, structure, and present functions of state, county, and city government, with particular reference to Oregon. Special attention is given to the rising problems of urban government and regional planning.

PSCI 243 Introduction to Public Administration

3 hours. Introduces the theory and practice of managing public agencies with a focus on the unelected levels of the executive branch in local, state, and federal government. The course examines both external dynamics (including relations with legislatures, elected officials, clients, interest groups, and voters) and internal issues (including budgeting, program management, and organizational theory as applied to not-for-profit agencies).

PSCI 253 Introduction to Comparative Government
3 hours. This course introduces students to the field of comparative government and politics through an examination of selected political systems.

PSCI 260 Introduction to Law
3 hours. A general study of the role of law and the legal profession in American life, and a survey of the major topics addressed by the law. Attention also is given to the values promoted by our legal system and the Christian's interaction with it.

PSCI 275 Field Experience
1-3 hours. Supervised experiences in varied political agencies. A maximum of three hours of credit can be gained through one internship. No more than six hours of internship credit will be counted toward major requirements, and of these no more than three hours may be upper-level credit.

PSCI 280 Introduction to Political Philosophy
3 hours. A study of great political thinkers and issues from Socrates to the present. Students are encouraged to understand and evaluate these thinkers in their historical contexts, and to consider them as philosophers whose insights are relevant for contemporary debates. (Identical to HIST 280 and PHIL 280.)

PSCI 285 Selected Topics
1-3 hours. A seminar dealing with various topics as announced that represent current faculty interests and competencies.

PSCI 300 American Political Theory
3 hours. A survey of the major developments in U.S. political theory from the Puritans to the present. The relationship between Christianity and American political theory is given special attention. (Identical to HIST 300 and PHIL 300.)

PSCI 303 International Conflict and Peace
3 hours. This course considers the causes of international conflict and possible approaches to their resolution. An emphasis is placed on strategies to prevent and resolve conflicts without the use of violence. (Identical to INTL 303 and SOCI 303.)

PSCI 310 Conflict Resolution
3 hours. A study of communication principles found useful in managing conflict productively. Focus is given to conflict occurring in institutional and organizational settings between individuals and groups. Attention also is given to conflict in social, national, and international settings. (Identical to COMM 310.)

PSCI 320 Constitutional Law: Issues of National Power
3 hours. Considers the powers of the federal judiciary, Congress, and president; the distribution of authority between the national and state governments; and how the Constitution has reflected our evolving theories of politics.

PSCI 353 Constitutional Law: Civil Rights and Liberties
3 hours. This course focuses on the Supreme Court's interpretation of the Bill of Rights and the Fourteenth

Amendment. Special emphasis is placed upon the religion clauses of the First Amendment.

PSCI 380 American Foreign Policy
3 hours. An inquiry into relationships between the social structure and ideological tradition of the United States and its conduct in world affairs. Attention is given to the substance of American foreign and military policy; to the roles of the White House, State Department, CIA, the military, Congress, private elites, and mass opinion; and to foreign policy impacts on domestic life.

PSCI 390 Peace Research
1-3 hours. Directed research on peace subjects, both current and historical. Students will normally write a major research paper. (Identical to HIST 390.)

PSCI 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

PSCI 410 Community Mediation
3 hours. A study of mediation skills and their uses in community disputes, including neighborhood conflicts, public policy issues, and as court-annexed alternatives to litigation. Students also will examine the impact of mediation on democratic political theory, on the theory underlying our adversarial legal system, and on Christian views of conflict in the public arena.

PSCI 420 War and Conscience in the United States
3 hours. An exploration of American thought on the subject of war, both today and in past crises such as the American Revolution, Civil War, wars with the American Indians, and the world wars; a study of the official position major church bodies have taken in regard to war; and the experiences of individuals who refused to fight. (Identical to HIST 420.)

PSCI 430 Women and Politics in American History
3 hours. Considers the role of women in politics from colonial days to the present. Special consideration is given to the role of Quaker women and grassroots organizers.

PSCI 440 Christianity and Politics in America
3 hours. This course considers how Christianity and politics have been related throughout American history,how they are related today, and how they should be related. Quaker contributions in each area are carefully considered.

PSCI 450 Campaigns and Elections
3 hours. Considers issues surrounding American campaigns and elections. Special emphasis is placed on the role of political parties and the voting behavior of individuals and groups.

PSCI 475 Field Experience
1-3 hours. Supervised experiences in varied political agencies. A maximum of three hours of credit can be gained through one internship. No more than six hours of internship credit will be counted toward major requirements, and of these no more than three hours may be upper-level credit.

PSCI 485 Selected Topics
1-3 hours. A seminar dealing with various topics as announced that represent current faculty interests and

competencies.

PSCI 490 Senior Seminar
3 hours. This capstone course requires majors to think in a sophisticated manner about the relationship between their Christian faith and politics. In addition, students will complete a major project that requires them to draw together skills and information they have learned in lower-level courses.

PSYC (Psychology)
Psychology

PSYC 150 General Psychology
3 hours. An introduction to the scientific study of human behavior. Major topics include the biological bases of behavior, sensation, perception, thinking, learning, memory, development, emotion, motivation, personality, social interaction, and abnormal behavior. Prerequisite to most other psychology courses.

PSYC 275 Exploratory Field Experience
2-3 hours. An opportunity to observe professionals in the helping environment.

PSYC 285 Selected Topics
1-3 hours. A course dealing with various topics, as announced, that represent current faculty interests and competencies and student interest. Previous offerings have included psychology of relationships, drug and alcohol abuse, child and adolescent psychopathology, and psychology of gender.
Prerequisite: PSYC 150 General Psychology.

PSYC 310 Lifespan Human Development
3 hours. A study of physical, intellectual, personality, social, and moral development from infancy to old age. Will not count as part of the psychology major.
Prerequisite: PSYC 150 General Psychology.

PSYC 311 Child Development
3 hours. A study of physical, intellectual, personality, social, and moral development from the prenatal period through late childhood. (Identical to FCSC 311.)
Prerequisite: PSYC 150 General Psychology.

PSYC 312 Adult Development
3 hours. A study of physical, intellectual, personality, social, and moral development from young adulthood to old age.
Prerequisite: PSYC 150 General Psychology.

PSYC 314 Adolescent Development
3 hours. A study of the unique physical, intellectual, personality, social, and moral developmental changes during the period of adolescence.
Prerequisite: PSYC 150 General Psychology.

PSYC 320 Neuroscience
3 hours. This course provides an overview of the neuropsychological, neuroanatomical, and biochemical basis for mental functions including motor control, object recognition, spatial reasoning, attention, language, memory, and emotion. Methods of neuropsychological research are explored.

PSYC 330 Personality Theories

3 hours. A survey of the major theorists of personality and their theories. Included are psychoanalytic, dispositional, phenomenological, and behavioral theories. An integrative approach will involve synthesis of important elements of theory and Scripture.
Prerequisite: PSYC 150 General Psychology.

PSYC 340 Statistical Procedures
3 hours. Applied statistics for the social and behavioral sciences. Emphasis is placed on statistical logic and decision making.
Prerequisite: high school algebra or equivalent.

PSYC 350 Social Psychology
3 hours. A study of the social and psychological processes of human interaction. Major topics to be covered include conformity, aggression, self-justification, persuasion, prejudice, attraction, and interpersonal communication.
Prerequisite: PSYC 150 General Psychology.

PSYC 353 Culture and Psychology
3 hours. This course will cover the nature of culture and its applications to understanding human functioning. Students will examine their own and other cultures, as well as cultural influence on their thought, behavior, and relationships.
Prerequisite: PSYC 150 General Psychology.

PSYC 360 Learning
3 hours. A survey of learning theories and the basic research questions being asked in this important field. Special emphasis will be placed on translating experimental theory into practical methods.
Prerequisite: PSYC 150 General Psychology.

PSYC 370 Cognition
3 hours. Traditional areas of study in cognitive psychology will be discussed. These areas include perception, attention, memory, reasoning, problem solving, and language. Traditional views as well as current trends will be discussed.
Prerequisite: PSYC 150 General Psychology.

PSYC 381 Counseling
3 hours. A study of theory and technique of person-centered counseling. The course is designed to teach basic theoretical postulates and to focus on effective intervention skills for those anticipating future work in Christian ministries, teaching, or mental health settings. Recommended as a prerequisite for field experience work (PSYC 475). (Identical to CHMN 381.)
Prerequisites: PSYC 150 General Psychology and sophomore status or above. Recommended: PSYC 330 Personality Theories.

PSYC 382 Advanced Counseling
3 hours. This course builds on the knowledge and skills learned in PSYC 381 Counseling. The course is designed to enhance the clinical skills necessary to form a therapeutic relationship and to connect these skills to a theoretical orientation. A focus of the course is on utilizing counseling skills in various settings including schools and clinics, and with various populations.
Prerequisite: PSYC 381 Counseling. Recommended: PSYC 330 Personality Theories.

PSYC 391 Research Methods
3 hours. An introduction to methods of psychological research. Students will be involved in designing and conducting experimental research. This course is fundamental preparation for students planning graduate

work in psychology or related fields.
Prerequisites: PSYC 150 General Psychology and PSYC 340 Statistical Procedures.

PSYC 392 Advanced Research Methods
3 hours. Students will explore research design, analyses, and computer applications in the areas of cognition, learning, sensation and perception, and development using a variety of hands-on methods.
Prerequisites: PSYC 340 Statistical Procedures and PSYC 391 Research Methods.

PSYC 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

PSYC 400 Psychological Testing
3 hours. Students will develop skills in understanding and critically evaluating educational and psychological tests (measures of ability, achievement, personality, and vocational interest). Also, modern principles of "psychometrics" - data-based analysis of test items, scores, and interpretations - will be emphasized, particularly the reliability and validity of items and scales. Students will have hands-on experience with various tests and will computer-analyze sample data from test development projects.
Prerequisites: PSYC 150 General Psychology and PSYC 340 Statistical Procedures. Recommended: PSYC 391 Research Methods.

PSYC 410 Sensation and Perception
3 hours. Using psychophysical techniques, students will study sensory systems, including vision, audition, olfaction, taste, touch, and kinesthesis. Classic and current theories of perception and sensation will be discussed.
Prerequisite: PSYC 150 General Psychology.

PSYC 420 Abnormal Psychology
3 hours. A study of the nature, causation, and treatment of the major psychiatric and behavioral disorders.
Prerequisite: PSYC 150 General Psychology.

PSYC 430 Addictions
3 hours. Examines the complex interaction of psychological and sociological forces involved in substance abuse and addictions. Etiology, treatment options, and efficacy of treatments are reviewed.
Prerequisite: PSYC 381 Counseling.

PSYC 440 Psychology of Religion
3 hours. This course will cover topics such as the human experience of the divine, the psychology of religious development, the psychology of dogmatic beliefs, ritual religious psychopathology, the psychology of conversion, and the psychology of faith. The course will also discuss and critique the body of research on religious behaviors.
Prerequisite: PSYC 150 General Psychology.

PSYC 450 History and Systems of Psychology
3 hours. The history of the various schools of psychology, their origins, distinguishing characteristics, major contributions, theoretical positions, and contemporary issues are investigated. Required for psychology majors and minors.
Prerequisite: PSYC 150 General Psychology.

PSYC 475 Field Experience
2-10 hours. Supervised experiences in helping activities in mental health agencies and institutions. A maximum of 3 hours may be applied toward a psychology major.
Prerequisite: upper-division majors only and by permission. Recommended: PSYC 381 Counseling or other 300-level psychology course.

PSYC 485 Selected Topics
1-3 hours. A course dealing with various topics, as announced, that represent current faculty interests and competencies and student interest. Previous offerings have included psychology of relationships, drug and alcohol abuse, child and adolescent psychopathology, and psychology of gender.
Prerequisite: PSYC 150 General Psychology.

PSYC 490 Senior Seminar
1 hour. Integration of Christianity and psychology is emphasized. In addition, students make preparations for careers in psychology. Required for all psychology majors.
Prerequisite: senior status.

PSYC 495 Special Study
1-3 hours. Independent study of subjects outside regular offerings and/or supervised research under the direction of faculty. Guiding bibliographies are provided, and regular reading reports and conferences are scheduled.
Prerequisites: upper-division psychology majors and by permission.

RELI (Religion)
Religion

RELI 230 Sociology of Religion
3 hours. A sociological examination of the meaning and function of religion in human society. Gives attention to the development of religious organization, the relationship of religion to class and politics, the nature of the sacred, dimensions of religiosity, and denominational diversity in the United States. (Identical to SOCI 230.)

RELI 260 History and Doctrine of Friends
3 hours. This course explores the rich heritage of the Quaker movement in its historical, social, and religious settings. The distinguishing beliefs of Friends and contemporary trends also will be studied, with particular interest in how to apply timeless truths in timely ways.

RELI 270 History and Doctrine of _____ (Selected Churches)
3 hours. Offered upon sufficient demand by denominational leaders, who supply the appropriate course descriptions.

RELI 275 Field Experience
1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This advanced experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: instructor's permission.

RELI 285 Selected Topics
2-3 hours. Occasional special courses chosen to fit the interests and needs of students and faculty.

RELI 300 Christian Foundations
3 hours. Christ-centered believers are united in basic understandings that should inform and guide all of life, including service, worship, and vocation. This course introduces a Christian view of the world through the lens of historic theology and its implications for living the Christian life.
Prerequisite: BIBL 100 Bible Survey, or BIBL 101 and BIBL 102 Literature of the Old and New Testaments.

RELI 310 Christian Apologetics
3 hours. A study of classic and contemporary theistic/atheistic arguments including postmodern assessments of religious belief. (Identical to PHIL 310.)

RELI 320 American Women of Faith
3 hours. American Women of Faith is a Christian history course in which issues of gender are central. Students reflect on historical and contemporary experiences of women, particularly as influenced by Christian beliefs and ideology. Such study helps prepare women and men for full participation in the life of their faith communities.

RELI 330 Introduction to the World Christian Movement
3 hours. The biblical basis and history of missions are considered, with a special focus upon the modern missionary movement of the last 200 years. (Identical to INTL 330.)

RELI 340 Christian Classics
3 hours. Certain Christian writings have endured the test of time and have been found to be a rich source of spiritual nourishment. A representative sampling of these significant works representing the life and thought of Christians from the second to the mid-20th century will be considered.

RELI 350 Spiritual Formation
3 hours. An exploration of how people grow and change spiritually. The study integrates biblical insights, classic Christian spirituality, developmental theory, and contemporary individual and corporate practice in spiritual formation. It will critically explore how spirituality relates to vocation, relationships, and the demands of daily living.

RELI 360 Cross-Cultural Christian Outreach
3 hours. Cross-cultural communication in Christian ministry, focusing on the concepts of identification, mutuality, the process of cultural change from a biblical perspective, and strategies for cross-cultural outreach.

RELI 380 Christian Beliefs
3 hours. As an introduction to Christian theology, this course considers the basic doctrines of the Christian faith and their application to contemporary living.

RELI 385 Quaker Seminar
1 hour. Designed to address topics of interest to Friends and matters of Quaker faith and practice. Topics will vary from semester to semester, and include sacramentality, worship and ministry, peace and social work, evangelism, leadership, decision making, and Christian testimonies.

RELI 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.)

Additional course fee is required.

RELI 401 Christianity in History I
3 hours. The development of Christianity from its appearance within the Greco-Roman world through the medieval period, and its influence as a base for culture in the West. (Identical to HIST 401.)

RELI 402 Christianity in History II
3 hours. Christianity's development from the dawn of the Protestant Reformation through its global spread during the modern era, observing its historical context and relationships to the surrounding cultures. (Identical to HIST 402.)

RELI 430 Sociology of Religion
3 hours. A sociological examination of the meaning and function of religion in human society. Gives attention to the development of religious organization, the relationship of religion to class and politics, the nature of the sacred, dimensions of religiosity, and denominational diversity in the United States. (Identical to SOCI 430.)

RELI 440 World Religions
3 hours. A comparative study between Christianity and other prominent religions of the world, such as Buddhism, Islam, Hinduism, and contemporary kinds of alternative religion. (Identical to INTL 440.)

RELI 460 Issues in Contemporary Missions
3 hours. Selected movements, trends, and leaders of contemporary Christian missions are studied. Lectures, readings, and learning activities are chosen to provide tools and methods for continuing education in missiology.

RELI 475 Field Experience
1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This advanced experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: instructor's permission.

RELI 485 Selected Topics
2-3 hours. Occasional special courses chosen to fit the interests and needs of students and faculty.

RELI 490 Contemporary Religious Life
3 hours. The movement, trends, and leaders of contemporary Christianity are studied in their social setting. Lectures and readings are chosen to provide tools and methods for thoughtful and continuing interpretation of religious life. As this is a senior capstone course, students must be juniors or seniors.

RELI 495 Special Study
1-3 hours. Individual research. Open to qualified students upon application.

SOCI (Sociology)
Sociology

SOCI 150 Principles of Sociology
3 hours. An introduction to the study of society, including the study of the shared relationships that create social organization and social processes of society. Required for sociology majors and for admission into the social work major.

SOCI 230 Sociology of Religion
3 hours. A sociological examination of the meaning and function of religion in human society. Gives attention to the development of religious organization, the relationship of religion to class and politics, the nature of the sacred, dimensions of religiosity, and denominational diversity in the United States. (Identical to RELI 230.)

SOCI 275 Field Experience
1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: instructor's permission.

SOCI 285 Selected Topics
1-3 hours. A seminar dealing with topics of special interest to students and current faculty.

SOCI 303 International Conflict and Peace
3 hours. This course considers the causes of international conflict and possible approaches to their resolution. An emphasis is placed on strategies to prevent and resolve conflicts without the use of violence. (Identical to INTL 303 and PSCI 303.)

SOCI 310 Cultural Anthropology
3 hours. A comparative study of world societies and their ways of life. (Identical to INTL 310.)

SOCI 320 Men and Women in Society
3 hours. A study of how societies construct gender similarities and differences. The impact of gender upon individuals and social institutions, and the implications of a sociological understanding of gender for the Christian faith will be explored.

SOCI 323 Sociology of Families
3 hours. A study of marriage and the family from a sociological perspective, including historical, cross-cultural, and economic backgrounds. A Christian faith perspective will emphasize the worth of people, the importance of the family as a place of nurture, and the gift of marriage. (Identical to FCSC 323 and HLTH 323.)

SOCI 326 Sociology of Sexuality
3 hours. The socio-cultural study related to human sexual behavior, including adolescent sexuality, STIs and sex education, same-sex attraction and homosexuality, contraceptives and birthing alternatives, marital sexuality, the sex trade, and sexual abuse. The course is presented within a redemptive Christian value framework, and encourages the connecting of the private and personal to public issues and concerns.

SOCI 340 Statistical Procedures
3 hours. Applied statistics for the social and behavioral sciences. Emphasis is placed on statistical logic and decision making. Recommended for the sophomore or junior year. Required for sociology and social work majors. (Identical to SWRK 340)
Prerequisites: SOCI 150 Principles of Sociology and high school algebra.

SOCI 360 Crime and Deviance
3 hours. An introduction to the study of deviance and criminology, including theoretical and paradigms and research.

SOCI 363 Social Stratification
3 hours. Examines the nature, causes, and consequences of inequality in society. An understanding of how social resources are distributed, and the resulting distribution of life chances, is central to understanding the fundamental bases of social order and social organization. This course takes a sociological approach to the study of inequality in which we argue that inequality is a characteristic of societies, not individuals.

SOCI 366 Social Change
3 hours. Explores socio-historic contexts, sources, and patterns related to social change, such as globalization, social movements, technological innovation, economic and political forces. Gives attention to understanding the role of individuals and groups in social change; moving toward a reflective, informed way of thinking and living as thoughtful Christians committed to justice.

SOCI 373 Social Theory
3 hours. A critical study of major social philosophers from Comte to the present. Required for sociology majors. (Identical to PHIL 373)
Prerequisite: SOCI 150 Principles of Sociology or PHIL 210 Introduction to Philosophy.

SOCI 380 Race and Ethnicity
3 hours. A study of the historical and socioeconomic factors experienced and lived by people of differing racial and ethnic backgrounds in the United States. Specific attention is placed on the social construction of race, social attitudes and past and present racial issues.
Prerequisite: SOCI 150 Principles of Sociology or instructor's permission.

SOCI 390 Research Methods
3 hours. An overview of quantitative and qualitative research methods in the social sciences. Students will design a research project. Required for sociology and social work majors.
Prerequisites: SOCI 150 Principles of Sociology, SOCI 373 Social Theory, and SOCI 340 Statistical Procedures or PSYC 340 Statistical Procedures.

SOCI 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

SOCI 410 Juvenile Delinquency
3 hours. A study of the causes and nature of juvenile delinquency, the development of the juvenile court, probation, and other rehabilitative programs.
Prerequisite: SOCI 150 Principles of Sociology or instructor's permission.

SOCI 430 Sociology of Religion
3 hours. A sociological examination of the meaning and function of religion in human society. Gives attention to the development of religious organization, the relationship of religion to class and politics, the nature of the sacred, dimensions of religiosity, and denominational diversity in the United States. (Identical to RELI 430.)

SOCI 475 Internship
3-6 hours. Supervised experiences in private and public social agencies. Students may opt for 3 hours of SOCI 475 Internship as part of their concentration, or 3 hours of SOCI 475 Internship as an elective in the major.

Prerequisites: upper-division majors and by permission.

SOCI 480 Senior Research Project
1-3 hours. For sociology majors only, this course requires students to complete a research project. With an expectation of a literature review, data collection and analysis, students will produce a piece of original research that is worthy of publication and/or presentation.
Prerequisite: SOCI 390 Research Methods.

SOCI 485 Selected Topics
1-3 hours. A special-interest course that addresses current topics in the field of sociology. Course offerings depend on current faculty competencies and student interest. Previous offerings have included a Christian response to the contemporary family, criminal justice, cross-cultural education, death and dying, Native American cultures, sociology of religion, sociology of adolescence, and sociology of literature.
Prerequisites: SOCI 150 Principles of Sociology and upper-division majors.

SOCI 495 Special Study
1-3 hours. Independent study of subjects outside regular offerings. Guiding bibliographies are provided, and regular reading reports and conferences are scheduled.
Prerequisites: upper-division majors and by permission.

SPAN (Spanish)
Spanish

Note: Placement testing is generally required of all students prior to registration for their first Spanish course at George Fox University. Placement exams are typically administered during orientation.

SPAN 101 Introductory Spanish I
4 hours. An integrated introductory study of Spanish. Listening, speaking, reading, and writing are all integral to learning the language. Cultural aspects of Spain and Latin America are also presented as essential components. Three class sessions and one laboratory per week.
Prerequisite: placement exam required.

SPAN 102 Introductory Spanish II
4 hours. An integrated introductory study of Spanish. Listening, speaking, reading, and writing are all integral to learning the language. Cultural aspects of Spain and Latin America are also presented as essential components. At the end of SPAN 102, students should have novice high proficiency as defined by the American Council of the Teaching of Foreign Languages (ACTFL). Three class sessions and one laboratory per week.
Prerequisite: SPAN 101 Introductory Spanish I or placement by exam.

SPAN 201 Intermediate Spanish I
4 hours. A proficiency-centered approach to the study of Spanish, with extensive practice in listening, speaking, reading, and writing. Three class sessions and one laboratory per week.
Prerequisite: SPAN 102 Introductory Spanish II or placement by exam.

SPAN 202 Intermediate Spanish II
4 hours. A proficiency-centered approach to the study of Spanish, with extensive practice in listening, speaking, reading, and writing. At the end of SPAN 202, students should have intermediate mid proficiency as defined by ACTFL. Three class sessions and one laboratory per week.
Prerequisite: SPAN 201 Intermediate Spanish I or placement by exam.

SPAN 275 Field Experience
1-10 hours. Supervised experience in a situation demanding extensive use of Spanish. Admission and credit hours determined by instructor.

SPAN 285 Selected Topics
2-4 hours. Occasional special courses chosen to fit the needs and interests of students and faculty.

SPAN 295 Special Study
1-4 hours. Individual study under the guidance of a faculty member, as determined by student needs and faculty availability.
Prerequisite: instructor's permission.

SPAN 301 Intermediate/Advanced Spanish I
4 hours. A thorough review of Spanish to develop intermediate high proficiency, as defined by ACTFL. Activities include reading authentic texts, writing in a variety of styles, and developing strategies for communication. Three class sessions and one laboratory per week.
Prerequisite: SPAN 202 Intermediate Spanish II or placement by exam.

SPAN 302 Intermediate/Advanced Spanish II
4 hours. A thorough review of Spanish to develop intermediate high proficiency, as defined by ACTFL. Activities include reading authentic texts, writing in a variety of styles, and developing strategies for communication. Three class sessions and one laboratory per week.
Prerequisite: SPAN 301 Intermediate/Advanced Spanish I or placement by exam.

SPAN 340 Spanish Culture and Civilization
3 hours. An introduction to the cultures and civilizations of the Iberian Peninsula. Students continue to develop skills toward advanced proficiency, as defined by ACTFL. Activities include reading authentic texts and listening to native speakers. Areas of study may include history, art, music, the role of religion, governmental systems, and gender differences. Taught in Spanish.
Corequisite: SPAN 301 Intermediate/Advanced Spanish I or instructor's permission.

SPAN 350 Latin American Culture and Civilization
3 hours. An introduction to the cultures and civilizations of Latin America. Students continue to develop skills toward advanced proficiency, as defined by ACTFL. Activities include reading authentic texts, field trips, and listening to native speakers. Areas of study may include history, art, music, the role of religion, governmental systems, and gender differences. Taught in Spanish.
Corequisite/Prerequisite: SPAN 302 Intermediate/Advanced Spanish II or concurrent enrollment in SPAN 302 Intermediate/Advanced Spanish II or instructor's permission.

SPAN 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

SPAN 410 Introduction to Spanish Literature
3 hours. A one-semester introduction to Spanish peninsular literature. This course introduces students to selected masters and periods of Spanish literature and reflects on matters of faith as revealed in the pieces studied. Students continue to develop skills toward advanced proficiency, as defined by ACTFL. Taught in Spanish.

Prerequisite: SPAN 302 Intermediate/Advanced Spanish II or instructor's permission.

SPAN 420 Introduction to Latin American Literature
3 hours. This course introduces students to selected masters and periods of Latin American literature and reflects on matters of faith as revealed in the pieces studied. Students continue to develop skills toward advanced proficiency, as defined by ACTFL. Taught in Spanish.
Prerequisite: SPAN 302 Intermediate/Advanced Spanish II or equivalent.

SPAN 475 Field Experience
1-10 hours. Supervised experience in a situation demanding extensive use of Spanish. Admission and credit hours determined by instructor.

SPAN 480 Senior Capstone
3 hours. This course synthesizes all the student's skills in Spanish. It includes a portfolio of written work, journal kept while abroad and reflection paper completed upon return to U.S., an oral proficiency interview, and a service-learning project. Meetings with professor focus on integration of faith and learning. Preferably taken after semester abroad.

SPAN 485 Selected Topics
2-4 hours. Occasional special courses chosen to fit the needs and interests of students and faculty.

SPAN 495 Special Study
1-4 hours. Individual study under the guidance of a faculty member, as determined by student needs and faculty availability.
Prerequisite: instructor's permission.

SWRK (Social Work)
Social Work

SWRK 180 Introduction to Social Welfare
3 hours. This course serves as an introduction to the philosophy, historical development, and current practices of the social work profession and social welfare in general. Specifically, the knowledge base, values, skills, practices, settings, educational and career opportunities of the profession will be examined. Emphasis is placed on developing awareness of the scope of the profession using a scientific, analytic approach to service delivery and evaluation; relating generalist social work practice to social welfare systems; economic and social justice; and work with diverse, oppressed, and at-risk populations. This course includes community service opportunities and/or social service agency tours. This course is required for those majoring in social work and must be taken prior to entrance into the major.

SWRK 275 Field Experience
1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: instructor's permission.

SWRK 285 Selected Topics
1-3 hours. A special-interest class offered on a onetime basis addressing a subject in the field that is of general interest to the university community.
Prerequisite: by permission.

SWRK 290 Diversity Issues in Social Work
3 hours. Introduces students to diverse populations and helps them understand the different constraints and motivations of people from backgrounds different from their own, providing important lessons for social work practice.

SWRK 331 Human Behavior in the Social Environment I
3 hours. This course is the first of a two-semester sequence that provides and seeks to apply a basic framework for creating and organizing knowledge of human behavior during the lifespan stages of conception, infancy, childhood, and adolescence and the social environment to situations encountered by generalist practice social workers. Social systems, human development theories, and strengths approaches are critically examined to foster understanding of individual, family, group, organizational, and community behaviors and the impact of the larger environment on these systems. Special attention is given to the impact of human diversity, discrimination, and oppression on the ability of individuals, families, groups, organizations, and communities to reach or maintain optimal health and well-being. Required for majors.
Prerequisites: PSYC 150 General Psychology and SOCI 150 Principles of Sociology.

SWRK 332 Human Behavior in the Social Environment II
3 hours. This course is the second of a two-semester sequence that provides and seeks to apply a basic framework for creating and organizing knowledge of human behavior during the lifespan stages of young adulthood, middle adulthood, and later adulthood and the social environment to situations encountered by generalist practice social workers. Social systems, human development theories, and strengths approaches are critically examined to foster understanding of individuals, family, group, organizational, and community behaviors and the impact of the larger environment on these systems. Special attention is given to the impact of human diversity, discrimination, and oppression on the ability of individuals, families, groups, organizations, and communities to reach or maintain optimal health and well-being. Required for majors.
Prerequisites: PSYC 150 General Psychology, SOCI 150 Principles of Sociology, and SWRK 331 Human Behavior in the Social Environment I.

SWRK 340 Statistical Procedures
3 hours. Applied statistics for the social and behavioral sciences. Emphasis is placed on statistical logic and decision making. Recommended for the sophomore or junior year. Required for sociology and social work majors. (Identical to SOCI 340.)
Prerequisites: SOCI 150 Principles of Sociology and high school algebra.

SWRK 380 Social Work Research Methods
3 hours. This course provides basic knowledge about research methods as it applies to social work practice. This course is designed to survey the basic processes of research methodology as practiced in the social sciences. Topics include research design, problem formulation, measurement, sampling, data analysis, and ethics in research. This course introduces the theory and application of basic social scientific research techniques, including qualitative and quantitative methods, data collection and statistical thinking. Topics specific to social work research such as agency-based research, program evaluation, outcomes evaluation and single-subject design will be emphasized. The use of research as one tool in the professional repertoire of skills available to the social work generalist and evaluation of practice are emphasized. This course is designed to increase students' ability to read for understanding, critically evaluate, and better utilize the social work research literature. At the same time it is designed to prepare students to begin work on the senior research paper/project. Finally, this course demonstrates the need for and encourages the use of research in social work practice.

SWRK 391 Social Work Practice I
3 hours. A study of generalist social work practice with individuals. Microlevel theory, skills, and interviewing techniques are applied to generalist social work. The course will cover theory and techniques

of person-centered case management that are specifically applicable to work with individuals. A prerequisite for Field Experience/Practicum I (SWRK 475). Required for majors. Additional course fee is required.
Prerequisites: PSYC 150 General Psychology, SOCI 150 Principles of Sociology, SWRK 180 Introduction to Social Welfare, declared social work majors only, and formal admission into the social work program.

SWRK 392 Social Work Practice II
3 hours. A study of mezzo-level generalist social work practice with families and groups. Attention is given to a systems framework of generalist social work practice, with a particular focus upon assessment and development of appropriate intervention strategies. A prerequisite for SWRK 476 Field Experience/Practicum II. Required for majors.
Prerequisite: SWRK 391 Social Work Practice I and declared social work majors only.

SWRK 393 Social Work Practice III
3 hours. An overview of generalist social work methods practiced with organizations and communities. Attention is given to assessment, planning, implementation, and evaluation of macro-level systems. A prerequisite for SWRK 477 Field Experience/Practicum III. Required for majors. This class is open to declared social work majors only.
Prerequisite: SWRK 392 Social Work Practice II.

SWRK 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings in the spring followed by travel to various locations throughout the world in May. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Offered at the discretion of the department. Upper division students, by permission. Additional course fee is required.

SWRK 400 Social Work with Children
3 hours. Basic principles of child welfare, with emphasis upon the services for families and children needing various types of support. Focus is on developing a knowledge and understanding of child welfare and supportive services.
Prerequisite: SWRK 180 Introduction to Social Welfare or instructor's permission.

SWRK 460 Social Policy
3 hours. This course proves an in-depth analysis of how human needs and values are translated into social policy on community, national and international levels. Special attention is given to the ways in which values and power interests influence the creation of social policy. Emphasis is placed on the history of social welfare and related policies, the process of policy formation and analysis, and impact of policy on at-risk populations. Implications for generalist social work practice and services will be explored through a variety of class activities. Required for social work majors.
Prerequisites: SWRK 180 Introduction to Social Welfare, PSCI 150 Introduction to Political Science, PSCI 190 American Government or PSCI 240 State and Local Government, SWRK 475 Field Experience/Practicum I, or the instructor's permission.

SWRK 475 Field Experience/Practicum I
3 hours (150 practicum hours in the agency). The first course of the field experience/practicum sequence will emphasize micropractice concepts and address orientation to the agency environment; student roles and responsibilities; agency roles and responsibilities; confidentiality issues; nature and process of supervision; establishing goals and objectives; models of integrating classroom learning with the field practicum; person-in-environment; interviewing techniques; identification of research and policy issues; work with special populations and injustices; process recordings; research methods in the agency; and ethical conduct/NASW

code of ethics. Required for majors. Recommended spring of the junior year.
Prerequisites: SWRK 391 Social Work Practice I and declared social work majors only.

SWRK 476 Field Experience/Practicum II
3 hours (150 practicum hours in the agency). Ideally, SWRK 476 and 477 will occur in a full-year practicum during the student's senior year. The second course in the field experience/practicum sequence will build upon knowledge and experience acquired in SWRK 475 and emphasize mezzo-practice concepts. Course topics will include work with small groups, families; integrating research and evaluation methods in the field experience/practicum; agency evaluation and analysis; referral processes; work with special populations/injustices; ethical dilemmas; ethical conduct/NASW code of ethics; agency recording process; and development of a student portfolio of practicum projects and skills. Required for majors.
Prerequisites: SWRK 475 Field Experience/Practicum I, SWRK 392 Social Work Practice II and declared social work majors only.

SWRK 477 Field Experience/Practicum III
3 hours (150 practicum hours in the agency). Ideally, SWRK 476 and 477 will occur in a full-year practicum during the student's senior year. The third course in the field experience/practicum sequence will provide further depth and integration of theory, classroom learning, and experience within the student's field experience/practicum, building on concepts developed in SWRK 476 and emphasizing macropractice concepts. Additional topics will include work with agency boards, communities, governmental systems; implementation of a research project in the agency; community analysis; termination with clients and the agency; addressing social inequities in the student's field experience/practicum; work with special populations and injustices; policy issues; and ethical conduct/NASW code of ethics. Required for majors.
Prerequisites: SWRK 476 Field Experience/Practicum II, SWRK 393 Social Work Practice III and declared social work majors only.

SWRK 485 Selected Topics
1-3 hours. A special-interest class that addresses a relevant subject in the field of social work. Previous and projected subjects include, but are not limited to, administration and community planning; cognitive and behavioral theories; crisis and trauma recovery; current issues in social work; medical and mental health services; systemic and ecologic theories; social policy; and treating addictive behaviors.
Prerequisite: SWRK 180 Introduction to Social Welfare.

SWRK 490 Senior Seminar
3 hours. A required course for majors to be taken during the spring semester of the senior year. The course will focus on consolidating substantive knowledge regarding 1) social welfare policies and services, 2) human behavior in the social environment, 3) the structure and function of communities and human service organizations, 4) methods of inducing change across the micro-, mezzo-, and macrolevels, and 5) methods of scientific inquiry necessary to assess human problems and the effectiveness of professional interventions. Focus also will be upon the integration of social theories with faith and learning. Required for majors.
Prerequisite: SWRK 392 Social Work Practice II.

SWRK 495 Special Study
1-3 hours. Independent study of subjects outside regular offerings. Guiding bibliographies are provided, and regular reading reports and conferences are scheduled.
Prerequisite: upper-division majors only and by permission.

THEA (Theatre)
Theatre

THEA 100 Acting I — Fundamentals
3 hours. Study of basic principles of acting, including survey of acting theories, performance of scenes, and critical observation and analysis of productions. This course requires additional outside-of-class time for rehearsal and performance of selected material.

THEA 125 A Theatre Laboratory — Acting
1-3 hours. The practical application of acting techniques in connection with university theatre productions. Open to any student taking part in a university theatre production. May be repeated for credit.
Prerequisite: instructor's permission.

THEA 125 B Theatre Laboratory — Directing
1-3 hours. The practical application of directing techniques in connection with university theatre productions. Open to any student taking part in a university theatre production. May be repeated for credit.
Prerequisite: instructor's permission.

THEA 125 C Theatre Laboratory — Technical
1-3 hours. The practical application of technical techniques in connection with university theatre productions. Open to any student taking part in a university theatre production. May be repeated for credit.
Prerequisite: instructor's permission.

THEA 125 D Theatre Laboratory — Design
1-3 hours. The practical application of design techniques in connection with university theatre productions. Open to any student taking part in a university theatre production. May be repeated for credit.
Prerequisite: instructor's permission.

THEA 130 Stagecraft
3 hours. Balancing lecture with hands-on experience, the course offers a survey of materials, processes, and equipment in the fabrication, assembly, painting, rigging, and installation of stage scenery, properties, and lighting. Additional course fee is required.

THEA 160 Improvisational Theatre Workshop
2 hours. Focus on development of improvisational skills through structured and directed psychological, physical, and social exercises. May be repeated once for credit.

THEA 165 George Fox University Players: Drama Touring Troupe
1 hour. Participation in theatre's traveling drama ministry ensemble. Students must remain with the troupe the entire year. May be repeated to a maximum of four hours credit. Pass/No Pass.
Prerequisite: audition and invitation.

THEA 200 Acting II – Stage Voice and Movement
3 hours. A study of the basic principles and techniques of increasing vocal and physical awareness and production on the stage, including life study projects and an introduction to basic theoretical approaches to voice and movement. This course requires additional outside-of-class time for rehearsal and performance of selected material.
Prerequisites: THEA 100 Acting I - Fundamentals and instructor's permission.

THEA 220 Oral Interpretation of Literature

3 hours. Introduction to the aesthetic bases of speech communication through the analysis and performance of various genres of literature. Attention given to performance of biblical literature, literature of diverse cultures, and the art of storytelling.

THEA 240 Understanding Drama
3 hours. A study of significant plays from the classical period to the present, both as literary works and staged productions, the goal being a deeper understanding and appreciation of drama as a symbolic form. Primary focus is on literary values, with attention also given to the constraints and interpretations embodied in the staging, acting, directing, and designing of a play. (Identical to LITR 240.)

THEA 275 Field Experience
1-10 hours. Offered summers only. Supervised experience with off-campus professional, community, church, or camp theatre productions or drama programs. The experience may include acting, directing, technical production, design, publicity, management, therapy, or any combination thereof.
Prerequisite: instructor's permission.

THEA 285 Selected Topics
3 hours. Characteristically offered as part of May Term. Special courses offered occasionally to meet the needs and interests of students, professors, and visiting professors, specifically including technical theatre.

THEA 300 Acting III – Contemporary Scene Study
3 hours. A study of the acting and philosophical challenges that face contemporary actors in the professional world of theatre. Through in-depth scene study, structural analysis, in-class presentations, and outside research the student is exposed to the theatre community's various artistic responses to recent political and social movements. This course requires additional outside-of-class time for rehearsal and performance of selected material.
Prerequisite: instructor's permission.

THEA 325 A Theatre Laboratory — Acting
1-3 hours. The practical application of acting techniques in connection with university theatre productions. Open to any student taking part in a university theatre production. May be repeated for credit.
Prerequisite: instructor's permission.

THEA 325 B Theatre Laboratory — Directing
1-3 hours. The practical application of directing techniques in connection with university theatre productions. Open to any student taking part in a university theatre production. May be repeated for credit.
Prerequisite: instructor's permission.

THEA 325 C Theatre Laboratory — Technical
1-3 hours. The practical application of technical techniques in connection with university theatre productions. Open to any student taking part in a university theatre production. May be repeated for credit.
Prerequisite: instructor's permission.

THEA 325 D Theatre Laboratory — Design
1-3 hours. The practical application of design techniques in connection with university theatre productions. Open to any student taking part in a university theatre production. May be repeated for credit.
Prerequisite: instructor's permission.

THEA 330 Stage Lighting and Sound
3 hours. An introductory study of the principles of stage lighting and sound design for theatrical production. The emphasis will be on both design and operation of sound and lighting equipment. Students will apply

theory through a number of projects. Additional course fee is required.
Prerequisite: THEA 130 Stagecraft or instructor' permission.

THEA 340 Theatre as Ministry
3 hours. A consideration of theatre skills as tools for meeting human needs in essentially nontheatrical environments. Focus on drama as a service medium rather than as strictly an entertainment vehicle.

THEA 350 Music Theatre Performance
3 hours. An introduction to the acting, dance, and vocal techniques required for music theatre performance. Through in-depth scene study, vocal training, dance, and in-class performances, the student will be introduced to the various artistic challenges inherent in music theatre since its inception. This course requires additional outside-of-class time for rehearsals and performance of selected material. Additional course fee is required. (Identical to MUSI 350.)
Prerequisites: THEA 100 Acting I - Fundamentals and MUSA 105 VC Applied Voice or MUSA 125T Music Theatre or MUSA 325T Music Theatre.

THEA 360 Improvisational Theatre Workshop
2 hours. Focus on development of improvisational skills through structured and directed psychological, physical, and social exercises. May be repeated once for credit.

THEA 365 George Fox University Players: Drama Touring Troupe
1 hour. Participation in theatre's traveling drama ministry ensemble. Students must remain with the troupe the entire year. May be repeated to a maximum of four hours credit. Pass/No Pass.
Prerequisite: audition and invitation.

THEA 370 Directing for Theatre
3 hours. An introduction to the director's role in theatre through historical and artistic research, comprehensive structural analysis, scene work, the creation of composition, stage pictures, blocking, rhythm, tempo, and an exploration of the working relationships with actors and design teams. This course requires additional outside-of-class time for rehearsal and performance of selected material. *Prerequisite: THEA 100 Acting I - Fundamentals.*

THEA 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

THEA 400 Acting IV – Acting Shakespeare
3 hours. An in-depth study of the world and words of Shakespeare. Through classroom exercises, scene study, and outside research the student is exposed to how word choice, syntax, and grammar informs the actor, influences action, exposes character, and creates the world of play. This course requires additional outside-of-class time for rehearsal and performance of selected material.
Prerequisite: instructor's permission.

THEA 420 Theatre Management
3 hours. This course introduces students to the diverse issues involved in managing a theatre company. It includes an examination of marketing and promotions, financial management, and organizational structures of various types of theatres, with special emphasis given to stage management. Students will be able to apply learned principles to hands-on projects and presentations.

Prerequisite: THEA 130 Stagecraft or instructor's permission.

THEA 430 Scenic Design
3 hours. An introductory study of the theories and skills of stage design with an emphasis on script analysis and good visual research. Assignments will guide the student to learning the practices of drafting, perspective drawing, watercolor rendering, and model building. Students will apply these learned techniques and research skills to several projects. Additional course fee is required.
Prerequisite: THEA 130 Stagecraft or instructor's permission.

THEA 440 Theatre History
3 hours. A broad survey of the history of theatre dedicated to the research, study, and analysis of the innovators and revolutionaries in playwriting theory, acting, directing, design, and production.

THEA 475 Field Experience
1-10 hours. Offered summers only. Supervised experience with off-campus professional, community, church, or camp theatre productions or drama programs. The experience may include acting, directing, technical production, design, publicity, management, therapy, or any combination thereof.
Prerequisite: instructor's permission.

THEA 485 Selected Topics
3 hours. Characteristically offered as part of May Term. Special courses offered occasionally to meet the needs and interests of students, professors, and visiting professors, specifically including technical theatre.

THEA 495 Special Study
1-3 hours. Open to exceptional students who want to explore a specific area in greater depth. Entrance at the discretion of a faculty member.

WRIT (Writing)
Writing

WRIT 100 English Skills
3 hours. A course to develop collegiate-level learning and written communication skills, focusing on reading speed and comprehension, vocabulary development, and a review of the standards of sentence structure, punctuation, grammar, and usage.
Prerequisite: by placement only.

WRIT 103 Individualized English Skills
1-2 hours. Individualized instruction in spelling, reading,composition, and research skills necessary for effective college learning. Pass/No Pass.

WRIT *110 College Writing*
3 hours. A course concentrating on expository writing, with an introduction to basic research methods. Argumentative writing is also introduced.

WRIT 200 Understanding Literature
3 hours. An approach to research and writing as a tool for understanding literary texts. Emphasis is placed on providing the knowledge and practice needed to produce original literary scholarship.
Prerequisite: WRIT 110 College Writing or equivalent, or instructor's permission.

WRIT *210 Practical Grammar and Editing*

3 hours. This course helps those who want to understand and to be able to explain to others what can be done to make writing correct, clear, and precise. Focuses on constructing, editing, and correcting sentences and paragraphs. This is not a remedial course. (Identical to JOUR 210)

WRIT 230 Introduction to Journalism
3 hours. A course designed to provide fundamental knowledge and experience in reporting, writing, and editing news for the print media. (Identical to JOUR 230.)
Prerequisite: WRIT 110 College Writing or equivalent, or instructor's permission.

WRIT 250 Biography and Autobiography
3 hours. An approach to writing and literature using personal experience to explore events, places, and people through recollections, interviews, diaries, journals, and the personal essay. Selected writers, ancient to contemporary, will be studied as representative models of the form within the genre.
Prerequisite: WRIT 110 College Writing or equivalent, or instructor's permission.

WRIT 275 Field Experience
1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: instructor's permission.

WRIT 285 Selected Topics
3 hours. Occasional special courses created to fit the needs and interests of faculty, visiting professors, and students.

WRIT *310 Desktop Publishing and Design*
3 hours. This course explores trends in media convergence, focusing as well on the ways reporters, editors, and designers create stories for the web. Particular emphasis will be on web-based story design, the coordination of text and art, and the creation of stories for a variety of new media outlets. (Identical to JOUR 310)
Prerequisite: WRIT 110 College Writing or equivalent, or instructor's permission.

WRIT 330 Writing for Publication
3 hours. A workshop approach to writing nonfiction articles and other shorter nonfiction forms for periodicals. Student-produced material is submitted to various magazines as part of course expectations. Special attention will be given to Christian markets. (Identical to JOUR 330)
Prerequisite: WRIT 110 College Writing or equivalent, or instructor's permission.

WRIT *360 Writing Fiction*
3 hours. A workshop approach to writing fiction. Students write and prepare for publication original works.
Prerequisite: WRIT 110 College Writing or equivalent, or instructor's permission.

WRIT 370 Writing Poetry
3 hours. A workshop approach to writing poetry. Students write and prepare for publication original works.
Prerequisite: WRIT 110 College Writing or equivalent, or instructor's permission.

WRIT 399 Cross-Cultural Study
3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.)

Additional course fee is required.

WRIT 475 Field Experience
1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.
Prerequisite: instructor's permission.

WRIT 480 Senior Capstone: Ethical and Spiritual Dimensions of Communication
3 hours. Designed to integrate skills and concepts from communication course work with ethical and spiritual principles through readings, written assignments, and assessment instruments. Students will complete portfolios that will include work samples and department exit exams along with a statement of what it means to be a Christian communicator. A service component may be included as part of the course. (Identical to JOUR 480 and COMM 480)

WRIT 485 Selected Topics
3 hours. Occasional special courses created to fit the needs and interests of faculty, visiting professors, and students.

WRIT *495 Special Study*
1-3 hours. Individualized study related to the student's needs and interests. Open to exceptional students at the discretion of the faculty.

Degrees Offered

To complete an undergraduate academic program at George Fox University, a student must select a major to pursue one of two general degrees—the bachelor of arts or the bachelor of science; or the professional degrees—the bachelor of science in athletic training or the bachelor of social work. A course of study includes three basic components: general education, the major field, and supporting and/or elective courses. Minor fields are optional and are composed of elective courses that have been packaged for identification of a vocational purpose or an interest.

Major and Minor Requirements

Admission to a Major

Students may enroll at George Fox University with or without a specific major in mind. However, students must formally declare their major with the registrar. A first-year student should declare his or her major by the beginning of the second semester.

Some departments have an application and screening process for admission to a major. In those cases, the declaration of major form is considered to be a statement of intent, and the process is complete only when the department admits the student to the major.

Admission to the university does not imply automatic admission to a major. Entry into George Fox University may be with a major as an objective, but there is a process for declaring a major.

In most cases, admission to a major will include meeting initial standards, as in the example of admission to teacher education and music. Admission to a major is normally accomplished no later than the end of the junior year, or before the completion of 90 credits.

A major is successfully completed when all major courses are completed with no grade below a C- and with a major GPA of 2.0 or above. A minimum of 10 semester hours within the major must be completed in residency.

Interdisciplinary Majors

The interdisciplinary major consists of a minimum of 48 semester hours with either a 24/12/12-hour option from three fields or a 24/24-hour option from two fields. A field must consist of approved courses from any traditional undergraduate major, minor, or concentration currently offered according to the undergraduate catalog. Of these hours, 30 must be upper division. The 24/12/12 and the 24/24 options are permitted at the discretion of each department. The designation of the degree (BA or BS) for the 24/12/12 option is determined by the subject of the 24-credit concentration. The designation of the degree (BA or BS) for the 24/24 option is determined by the subject of both 24-hour concentrations. If the degrees for the two subjects differ, the student may elect BA or BS. The student must complete a contract form prepared in consultation with his or her advisor, the registrar, and the department chairperson of each concentration.

A student pursuing an interdisciplinary studies major as a second degree or second major may not choose as a subject area a discipline that is the student's first major or minor.

Selection of a Minor

A minor is a package of elective courses that have a common bond and that identify certain interests and competencies. Usually a minor consists of an approved group of courses with no fewer than 18 semester hours, 6 of which must be upper-division credit. The registrar's office will provide information on requirements, or some are listed in this catalog.

A minor is successfully completed when all minor courses are completed with no grade below a C- and with a minor GPA of 2.0 or above.

Graduation Requirements

George Fox University confers these undergraduate degrees: bachelor of arts, bachelor of science, and bachelor of science in athletic training, and bachelor of social work.

Requirements

A student wishing to receive a bachelor of arts, bachelor of science, bachelor of science in athletic training, or a bachelor of social work degree must meet the following requirements:

1. Accumulate at least 126 semester hours with a minimum cumulative and major GPA of 2.0 (engineering and music education majors must complete additional requirements but may graduate within the 126 hour minimum should program requirements be waived, such as through sufficient SAT scores). The GPA is computed on work taken at George Fox University only;
2. Accumulate at least 42 upper-division semester hours (courses numbered 300 or above);
3. Complete the general education requirements;
4. Complete a major in a chosen area with no grade below a C-;
5. Complete at least 30 semester hours in residency (20 hours must be in senior year; 20 of the last 30 hours must be completed at George Fox University);
6. Complete at least 10 hours of one's major in residency;
7. File an Application for Degree form not later than completion of 93 semester hours toward graduation (normally two semesters before expected graduation);
8. Pay in full all accounts at Student Financial Services.

In order to participate in commencement and baccalaureate ceremonies, a student must have completed all degree requirements. Exceptions include a student registered for a post-commencement May term course that is part of the degree program, and a fourth-year engineering student eligible for the B.S. degree in applied science whose first year in a cooperating engineering school may not be completed at the time of the George Fox University commencement.

Second Degree

A student wishing to receive a second or concurrent degree must meet the following requirements:

1. Complete a minimum of 30 semester hours for the "second" degree above the minimum 126 hours required for the "first" degree;
2. Meet the general education and major requirements for each degree;
3. Be in attendance the last two semesters, or 30 hours, preceding the awarding of the "second" degree;
4. Pay an additional $20 graduation fee if participating in one ceremony; otherwise, pay an additional $50 graduation fee for the "second" degree.

The above requirements also apply to students who earned their first bachelor's degree at another institution. For these students no general education is required unless the major has specific general education requirements which must be satisfied. Transfer credit will only be awarded for major requirements of the second degree and limited so as not to reduce the minimum requirements above.

General Education Program

General Education at George Fox University
General education is sometimes called a core curriculum, or general studies. It is that part of the college experience required of all graduates (although options may be permitted within certain programs) that gives them a common heritage and helps implement the distinctive university mission.
General education requirements total 54 semester hours. Certain lower- and upper-division courses in general education are required of all students. The specified courses and the options listed below provide knowledge and skills in support of cultural perspectives and major programs. Since some majors have specified certain of the options stated below, students should check the major requirements described for their selected majors. A single course may fulfill only one general education requirement. However, one course may be applied to general education, and/or multiple majors, and/or multiple minors.

Freshmen
All freshmen are expected to register for WRIT 110 College Writing (3) in the first year. Additionally, all first-semester freshman students who matriculate in the fall are required to enroll in GEED 130 First Year Seminar (1).
All new students with less than junior standing are expected to register for BIBL 100 Bible Survey (4), or BIBL 101 Literature of the Old Testament (3) and BIBL 102 Literature of the New Testament (3), and other general education courses during the first year.

Transfer Students
Transfer students should consult closely with their faculty advisors concerning their general education requirements. They will generally be expected to fulfill the requirements of the catalog under which they entered George Fox University.

General Education Requirements

Senior Capstone (3 hrs)

GEED 490 Liberal Arts and Critical Issues (3). This course is designed to encourage students to integrate their specialized knowledge and general education with Christian faith, in the context of addressing a public issue of current significance. The course explores how various disciplinary approaches to discerning truth may contribute to collaborative social action. Students will participate in groups to research the chosen public issue and formulate an action proposal. Individual students will be asked to formulate their own statement of faith, learning, and professional integration.

NOTE: This course is required for all transfer students, except for those with an accepted Oregon or Washington associate of arts transfer degree of at least 60 semester hours.

Bible and Religion (10 hours)

1. BIBL 100 Bible Survey (4). Freshmen are required to take this course, or given a superior placement examination, a 3-hour lower-division Bible elective. Students may substitute BIBL 101 Literature of the Old Testament (3) and BIBL 102 Literature of the New Testament (3). If substituted, both courses must be taken.
2. RELI 300 Christian Foundations (3)
3. One of the following elective courses in Bible:

   BIBL 240 Wisdom Literature (3)
   BIBL 250 The Psalms (3)
   BIBL 260 Life of Christ (3)
   BIBL 310 Old Testament History (3)
   BIBL 330 The Prophetic Writings (4)
   BIBL 340 Between the Testaments (3)
   BIBL 350 Writings of John (3)
   BIBL 360 Women and the Bible (3)
   BIBL 385 Selected Bible Topics (3)
   BIBL 390 Biblical Basis for Peacemaking (3)
   BIBL 411 Acts and the Pauline Epistles I (3)
   BIBL 412 Acts and the Pauline Epistles II (3)
   BIBL 480 General Epistles (3)

   Students who are members of the Friends Church are required to substitute RELI 260 History and Doctrine of Friends (3).

Bible and Religion Requirements for Transfer Students (6-7 hours)

1. Transfer students with fewer than 62 semester hours must fulfill the regular general education requirements as stated above.
2. Transfer students with an accepted Oregon or Washington associate of arts transfer degree of at least 60 hours and transfer students with 62 semester hours or more must fulfill the following:
   1. Take one of the introductory Bible classes:

      BIBL 100 Bible Survey (4)
      BIBL 101 Literature of the Old Testament (3)
      BIBL 102 Literature of the New Testament (3)
      Take RELI 300 Christian Foundations (3)
      (students who are members of the Friends Church may substitute RELI 260 History and Doctrine of Friends [3])

Communication (6 hours)

1. WRIT 110 College Writing (3) (may be waived by a verbal SAT score of 670 or above)

2. Choose one of the following:
   COMM 100 Introduction to Communication (3)
   THEA 100 Acting I - Fundamentals (3)
   THEA 220 Oral Interpretation of Literature (3)

Health and Human Performance (3 hours)

1. HHPA 120 Lifelong Fitness (2)
2. One additional hour of physical education activity is required to complete the university's general education requirement. This requirement may be satisfied in the following ways:
   1. Human performance activity or adapted activity class (1).
   2. Up to one hour may be waived upon successful completion of proficiency tests in selected areas. A current Red Cross Lifeguarding or Water Safety Instruction certificate will waive 1 hour without further examination (the credit hour waived will be added to elective credits for the degree).
   3. One hour toward the 3-hour requirement may be earned on intercollegiate athletic teams. Only 1 hour in any one sport will count.
   4. Any professional activity class meets 1 hour of the requirement, by permission only (HHPE 221, 222, 223, 226, 228, 232).
   5. Military service may waive 1 hour (the credit hour waived will be added to elective credits for the degree).

Humanities (11 hours minimum)

Choose a minimum of 11 hours, taking four courses from the options listed below, including at least one course and no more than two courses from each of the following areas: fine arts, history, and literature.

1. Fine Arts

If a student chooses to take two courses in fine arts to fulfill the humanities general education requirement, one must be art and one must be music.
ARTS 111 Drawing (3)
ARTS 216 Art History Survey to 1450 (3)
ARTS 217 Art History Survey from 1450 (3)
MUSI 100 Music Fundamentals (2)
MUSI 110 Understanding Jazz (2)
MUSI 120 The World of Music (2)
MUSI 210 Keyboard Literature (2)

2. History

HIST 110 Western Civilization to 1648 (3)
HIST 120 Western Civilization from 1648 (3)
HIST 151 United States to 1865 (3)
HIST 152 United States from 1865 (3)

3. Literature

LITR 100 Introduction to Literature (3)
LITR 220 Great American Writers (3)
LITR 236 Ancient World Literature (3)
LITR 237 World Literature, Medieval to Modern (3)
LITR 238 Contemporary World Literature (3)
LITR 240 Understanding Drama (3)
LITR 270 Great British Writers (3)
LITR 280 Literary Foundations of Women's Studies (3)
LITR 326 American Literature to 1865 (3)
LITR 327 American Literature, 1865-1914 (3)

LITR 328 American Literature, 1914-Present (3)
LITR 340 Poetry (3)
LITR 360 Values Through Story and Myth (3)
LITR 376 British Literature to 1660 (3)
LITR 377 British Literature, 1660-1830 (3)
LITR 378 British Literature, 1830-Present (3)
LITR 379 Shakespeare (3)
LITR 385 Major Authors (3)
LITR 440 A Study of the Modern Novel (3)

4. Philosophy (choose a maximum of one course)
PHIL 210 Introduction to Philosophy (3)
PHIL 230 Ethics (3)
PHIL 270 Philosophy of the Arts (3)

Sciences (15 hours minimum)
Choose a minimum of 15 hours from the options listed below. Students must choose one course from math, two courses from natural science, and two courses from social science.

1. Mathematics
Waiver of 3 hours of math requirement for an SAT score of 600 or above (the 3 credit hours waived will be added to elective credits for the degree)
CSIS 201 Introduction to Computer Science I (3)
CSIS 202 Introduction to Computer Science II (3)
MATH 150 The World of Mathematics (3)
MATH 180 College Algebra (3)
MATH 190 Precalculus Mathematics (4)
MATH 201 Calculus I (4)
MATH 202 Calculus II (4)
MATH 260 Discrete Mathematics (3)
MATH 301 Calculus III (3)

2. Natural Science
BIOL 100 Foundations of Biology (3)
BIOL 211 General Biology I (4)
BIOL 212 General Biology II (4)
BIOL 331 Human Anatomy and Physiology I (4)
BIOL 332 Human Anatomy and Physiology II (4)
CHEM 100 Chemistry of Life (3)
CHEM 110 Chemistry and Our Environment (3)
CHEM 151 General, Organic, and Biological Chemistry I (4)
CHEM 152 General, Organic, and Biological Chemistry II (4)
CHEM 211 General Chemistry I (4)
CHEM 212 General Chemistry II (4)
GSCI 120 Environmental Science (3)
GSCI 130 Fundamentals of Geology (3)
PHYS 150 Physics of Everyday Life (3)
PHYS 190 Astronomy (3)
PHYS 201 General Physics I (4)
PHYS 202 General Physics II (4)
PHYS 211 General Physics with Calculus I (4)

PHYS 212 General Physics with Calculus II (4)

3. **Social Science**
   ECON 201* Principles of Microeconomics (3)
   ECON 202* Principles of Macroeconomics (3)
   PSCI 150 Introduction to Political Science (3)
   PSYC 150 General Psychology (3)
   SOCI 150 Principles of Sociology (3)
   *Students may select one, but not both, of these courses to fulfill general education requirements.

Global and Cultural Understanding (6 hours minimum)
Choose a minimum of 6 hours from the courses listed below. Students must take 3 hours from the Global Understanding section and 3 hours from either the Global Understanding or Cultural Understanding sections.

1. **Cultural Understanding (Domestic)**
   GEED 355 Cross-Cultural Experience (Domestic) (3)
   HIST 380 The African-American Experience (3)
   SOCI 380 Race, Ethnicity, and Class (3)

2. **Global Understanding**
   COMM 410 Gender Communication Across Cultures (3)
   ECON 360 Global Political Economy (3)
   ESLA 240 Adjunct Listening (3)
   ESLA 250 Adjunct Reading (3)
   ESLA 260 Academic Writing (3)
   ESLA 280 Speech (3)
   FCSC 310 Food, Culture, and Society (3)
   FREN 102 Introductory French II (4)
   FREN 201 Intermediate French I (4)
   FREN 202 Intermediate French II (4)
   FREN 301 Intermediate/Advanced French I (4)
   FREN 302 Intermediate/Advanced French II (4)
   GEED 365 Cross-Cultural Experience (International) (3)
   GEOG/INTL 200 Cultural Geography and Global Relationships (3)
   HIST 250 Latin America (3)
   HIST 340 History of the Middle East (3)
   HIST 343 History of Southern Africa (3)
   HIST 360 Modern Russia (3)
   HIST 370 Modern China and Japan (3)
   JPNS 102 First-Year Japanese II (3)
   JPNS 201 Second-Year Japanese I (3)
   JPNS 202 Second-Year Japanese II (3)
   *LITR 236 Ancient World Literature (3)
   *LITR 237 World Literature, Medieval to Modern (3)
   *LITR 238 Contemporary World Literature (3)
   LITR 480 International Women's Voices (3)
   MUSI 130 Music in World Cultures (2)
   PSCI/INTL 230 Introduction to International Relations (3)
   PSCI/INTL 303 International Conflict and Peace (3)
   PSYC 353 Culture and Psychology (3)

RELI/INTL 330 Introduction to the World Christian Movement (3)
RELI 360 Cross-Cultural Christian Outreach (3)
RELI/INTL 440 World Religions (3)
SOCI/INTL 310 Cultural Anthropology (3)
SPAN 102 Introductory Spanish II (4)
SPAN 201 Intermediate Spanish I (4)
SPAN 202 Intermediate Spanish II (4)
SPAN 301 Intermediate/Advanced Spanish I (4)
SPAN 302 Intermediate/Advanced Spanish II (4)
*The three LITR courses may count for the Humanities or for Global Understanding, but not for both.

Course Challenge Programs

Students may reduce the number of required courses and add flexibility to their undergraduate years through one or more of the following programs.

Advanced Placement
College credit may be granted in several subject areas to the student who completes a college-level course in high school and receives a score of three or better through the Advanced Placement program sponsored by the College Entrance Examination Board. Students expecting advanced placement credit should request, at the time the test is taken, for scores to be sent to George Fox University.
College Level Examination Program
The Educational Testing Service of the College Board provides nationally recognized standardized testing through which college credit may be earned or course proficiency verified. This is the College Level Examination Program (CLEP). Testing through the CLEP General Examinations is designed to verify competency in general education. Tests may be taken in five areas for a maximum of 32 semester hours of credit. (General examinations are to be taken prior to the completion of the first semester of enrollment as a freshman at George Fox University.) It is recommended that the English Composition examination with essay be taken in June prior to college enrollment. Testing through the CLEP Subject Examinations provides verification of competency in selected academic fields such as foreign language, mathematics. These may be taken at any time (unless concurrently enrolled in an equivalent course) and assume competency has been gained in nonclassroom settings. See the registrar for details and test applications. The tests are administered by the registrar, as authorized by the College Entrance Examination Board, which sponsors the examinations.

Credit by Examination
Courses offered at George Fox University for which CLEP testing is not available may be challenged by examination at the discretion of the department. There is a test fee of $60 per examination. See the registrar for details.

International Baccalaureate (IB)
College credit may be granted in several subject areas to students who complete college-level work through the program. A minimum score of five is required on High Level examinations for credit consideration. Students must provide the registrar's office with a copy of the transcript to receive consideration. Credits awarded as a result of documentation will be accepted as transfer credit.

Proficiency Test
A student may fulfill general education and some program requirements or become eligible for registration in advanced courses by passing a proficiency test for the area involved. No fee is charged for proficiency

testing, and credit is not granted. Typical academic areas for which proficiency tests are available are languages, music, Bible, and physical education activity courses.

A placement test is generally required prior to registration for George Fox University modern language classes. Placement tests are generally given during new student orientation.

A student from a non-English-speaking nation may fulfill the language requirement by demonstrating proficiency in the English language.

Course Numbering System

Courses are designed for levels of experience and difficulty, and the course numbering system reflects this. Courses numbered 000 to 099 are pre-college courses and carry no credit toward degree requirements. Courses numbered 100 to 299 are lower-division level and normally are open to freshmen and sophomores. Courses numbered 300 to 499 are upper-division level and normally are open to juniors and seniors. Freshmen may not enroll in courses at the 300 and 400 level except by permission of the chairperson of the department in which the course is offered. A 300-numbered course may be open to sophomores. Exceptions may be made when prerequisites are met and general education requirements have been fulfilled on schedule. Courses at the 500 to 700 levels are graduate courses.

- Course numbers ending in 5 (e.g., COMM 305) designate courses that may be pursued for several semesters under the same number, with all credits applicable, within stipulated limits.
- Generally, course numbers ending in 1 and 2 (e.g., CHEM 211, 212) designate courses offered sequentially through the year. Generally, a continuing course may not be entered in the second semester without completing the previous semester or obtaining the permission of the instructor.
- Course numbers ending in 75 designate supervised teaching or field education courses for which application is necessary through the registrar. See Field Education.
- Courses designated 285 and 485 are special classes that may be offered in any department to reflect single-time offerings of visiting professors or group seminars.
- Courses designated 295 and 495 are individualized special study programs not a part of the regular curriculum. Application forms are available from the registrar and, when completed, become a learning contract between the student and the instructor. A student may not be enrolled in more than 4 hours of 295/495 in any regular semester and may not accumulate more than 12 hours of 295/495 for graduation.
- Course number 490 designates a senior seminar that is completed in one semester; numbers 491 and 492 designate a senior seminar completed in two semesters.
- Many 300- and 400-level courses are offered in alternate years. If a year of offering is stated, it should be assumed that the course will be offered in alternate years only.
- A GEED prefix refers to general education.

Preprofessional Programs

Premedicine/Predental/Preveterinary Program

George Fox University is pleased with the excellent success students have had in gaining admission to medical, dental, and veterinary schools. Students who wish to pursue a career in medicine, dentistry, or veterinary medicine usually select a major in biology or chemistry. They may, however, choose any academic major the university offers as long as they take certain specific courses required by the professional schools. George Fox University offers all of the science and mathematics courses required by the professional schools of the region. Even though specific requirements differ with each medical school, the requirements uniformly include the following:

BIOL 101 General Biology I
BIOL 102 General Biology II
CHEM 211 General Chemistry I
CHEM 212 General Chemistry II
CHEM 331 Organic Chemistry I
CHEM 332 Organic Chemistry II
PHYS 201 General Physics I
PHYS 202 General Physics II
One year of mathematics, usually fulfilled by MATH 201 and 202, Calculus I and II.
Other highly recommended courses are as follows:
BIOL 310 Developmental Biology
BIOL 322 Comparative Vertebrate Anatomy
BIOL 330 Animal Physiology
BIOL 350 Genetics
BIOL 370 Microbiology
BIOL 420 Cell Biology
CHEM 310 Analytical Chemistry
CHEM 341 Biochemistry
CHEM 401 Physical Chemistry I
CHEM 402 Physical Chemistry II

It is important to consult with your academic advisor early in setting up a plan for a strong program. Students should be aware that, in addition to meeting the minimal entrance requirements, good grades (3.5 grade point average or above) and a strong performance on the national admission tests (MCAT, DAT, and VAT, usually taken in the spring of the junior year) are essential. Also necessary for admission are letters of recommendation and an interview with the professional school's admission committee.

Our world needs Christian health professionals strong in character and maturity who have had broad educational and social experiences. George Fox University offers excellent opportunities to build these qualities through academic courses in areas such as ethics, psychology, computer science, literature, history, and foreign languages, and through varied social opportunities.

Prelaw Program

Students considering law school enjoy a wide range of options in their course of study, which can be worked out with their prelaw advisor. The best preparation for law school (and a legal career) emphasizes a broad liberal arts education as an undergraduate. Students need to prepare themselves to understand complex real-world problems from as many perspectives as possible.

Therefore, prelaw students may choose from many different majors, supplementing the major with electives and general education options that stress writing and oral communication skills, logical and critical thinking, close reading of difficult material, and deeper understanding of society and culture. Prelaw students are strongly encouraged to take PSCI 260 Introduction to Law, and to join in activities with other prelaw students.

The university's prelaw advisor, a graduate of a prestigious law school, will work with students to help design their courses of study, plan for entry into law school, and sponsor events to give students exposure to the law and the legal profession.

Academic Calendar 2009-2010

Fall Semester

Fall Enrollment Confirmation (Traditional Undergraduates)	August 28-29, 2009
Fall Semester Begins	August 31, 2009
Serve Day	September 9, 2009
Last Day to Change Registration (Add/Drop)	September 11, 2009
Last Day to Exercise Pass/No Pass Option	September 25, 2009
Mid-Semester Holiday	October 16, 2009
Mid-Semester Grade Entry	October 28-30, 2009
Last Day to Withdraw from Class without Grade Responsibility	November 6, 2009
Thanksgiving Holiday	November 26-27, 2009
Study Day (Traditional Undergraduate)	December 14, 2009
Finals	December 15-18, 2009
Fall Semester Ends	December 18, 2009
Mid-year Commencement	December 19, 2009
Final Grade Entry Deadline	January 1, 2010

Spring Semester

Spring Enrollment Confirmation (Traditional Undergraduates)	January 10, 2010
Spring Semester Begins	January 11, 2010
Martin Luther King Jr. Holiday	January 18, 2010
Last Day to Change Registration (Add/Drop)	January 22, 2010
Last Day to Exercise Pass/No Pass Option	February 5, 2010
Mid-Semester Grade Entry	March 10-12, 2010
Last Day to Withdraw from Class without Grade Responsibility	March 19, 2010
Spring Break	March 20-28, 2010
Good Friday Holiday	April 2, 2010
Study Day (Traditional Undergraduate)	April 26, 2010
Finals	April 27-30, 2010
Spring Semester Ends	April 30, 2010
Spring Commencement	May 1, 2010
Final Grade Entry Deadline	May 14, 2010

Summer Semester/May Term

Summer Semester/May Term Begins	May 3, 2010
Last Day to Change May Term Registration (Add/Drop)	May 4, 2010
Last Day to Withdraw from May Term Class without Grade Responsibility	May 6, 2010
Last Day to Change Summer Registration	May 14, 2010
May Term Ends	May 21, 2010
Memorial Day Holiday	May 31, 2010
May Term Final Grade Entry Deadline	June 4, 2010
Independence Day Holiday	July 5, 2010
Last Day to Withdraw from Summer Class without Grade Responsibility	July 9, 2010
Summer Semester Ends	August 27, 2010
Final Grade Entry Deadline	September 10, 2010

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