



GEORGE FOX UNIVERSITY

2001-2002
UNDERGRADUATE
CATALOG

George Fox University

2001-2002 Catalog

CollegeSource

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*George Fox
University*

Use of Catalog

This catalog is provided for guidance in course selection and program planning. While every effort is made to ensure the accuracy of the information in this catalog, in no sense is it to be considered a binding contract, and it may be changed by action of appropriate bodies within the University. Courses listed in this catalog are subject to change through normal academic process. New courses and changes in existing course work are initiated by the cognizant graduate school, department, or program, and approved by Academic Affairs and the University faculty. Changes to the curriculum are published in the program outlines and schedule of classes.

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UNIVERSITY CALENDAR Inside Back Cover

The university from which you earn an academic degree is part of you for the rest of your life. You are “branded” with your diploma and transcript. Each graduate school or future employer will know your educational identity. Clearly, your choice of university is important.

A degree from George Fox University identifies you with one of the finest institutions in the Northwest, as recognized by educators, business leaders, and professionals from across the country.

- U.S. News & World Report magazine annually for 13 years has recognized George Fox as “One of America’s Best Colleges,” especially for its academic reputation.
- Senator Mark Hatfield, Herbert Hoover Distinguished Professor at George Fox, states: “You know there is something different about this university the moment you walk on this campus. The atmosphere is in sharp contrast to the many factory-like, decentralized, impersonal schools” that can be seen across the nation.
- George Fox is one of 20 colleges and universities in the United States named to receive double honors by the John Templeton Foundation: the University is one of 100 selected for its Honor Roll for Character-Building Colleges and the president is one of 50 recognized for outstanding presidential leadership.

Along with strong academic programs, George Fox brings you together with others seeking Christ-centered education. Interaction with peers extends the learning environment beyond the classroom to create networks and friendships that go with students long after the degree is completed.

The University further empowers students by providing opportunities for experiential learning. Internships, practicums, and cocurricular activities provide opportunities for leadership and skill development.

The George Fox “brand” is distinctive and of high quality. Our faculty, staff, and administrators are committed to the purpose and person of Jesus Christ. They are ready to be your friends, teachers, role models, and mentors. I encourage you to discover whether George Fox University is where God is directing you to study .

A handwritten signature in black ink that reads "H. David Brandt". The signature is written in a cursive, flowing style.

H. David Brandt
President

PURPOSE

*George Fox
University*

MISSION AND OBJECTIVES

The mission of the University from its beginning has been to demonstrate the meaning of Jesus Christ by offering a caring educational community in which each individual may achieve the highest intellectual and personal growth, and by participating responsibly in our world's concerns. The foregoing "mission statement" of George Fox University is detailed in the following institutional objectives:

1. Teach all truth as God's truth, integrating all fields of learning around the person and work of Jesus Christ, bringing the divine revelations through sense, reason and intuition to the confirming test of Scripture.
2. Support academic programs that liberate the student for a life of purpose and fulfillment through an awareness of the resources of knowledge and culture available; maximize career-oriented education through counseling, curriculum, field experience, and placement.
3. Maintain a program of varied activities that directs the student to a commitment to Christ as Lord and Savior, encourages attitudes of reverence and devotion toward God, leads to recognition that the revealed commandments of God are the supreme criteria of the good life, enables the student to mirror the example of Christ in human relationships, and develops a greater desire to serve humanity in a spirit of Christian love.
4. Provide a center for Quaker leadership where faculty and students learn the history and Christian doctrines of the Friends movement and make contemporary applications of these insights.
5. Give leadership to evangelical Christianity generally, through scholarly publication, lecturing, and by evangelistic and prophetic proclamation and service.
6. Promote cocurricular activities that will emphasize the development of leadership, initiative, and teamwork by giving opportunity to make practical use of the skills and ideas acquired through academic courses.
7. Make itself a community in which studies and activities are made relevant to life, develop insight into social and political issues confronting humanity, and learn to participate democratically in decision making and policy implementing as responsible citizens.
8. Serve as a cultural center for all publics of the University and sponsor programs that are informative and culturally stimulating to the larger university community.
9. Provide distinctive learning opportunities through continuing education programs and through curriculum enhancements such as off-campus centers, study abroad, honors programs, and other special programs and events.

10. Cultivate awareness, respect, understanding, and appreciation of cultural diversity throughout the University community to provide members of diverse races and cultures an affirming environment that encourages cross-cultural sharing in the context of Christian lifestyle expectations.

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.

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

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.

ACCREDITATION AND MEMBERSHIPS

George Fox University is accredited by the Northwest Association of Schools and Colleges, 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 United States 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 for Christian Colleges and Universities, the Association of American Colleges, the College Scholarship Service, the Council of Independent Colleges, the American Association for Higher Education, the Friends Association for Higher Education, the National Association of Evangelicals, the National Collegiate Athletic Association, the National Association of Independent Colleges and Universities, 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.

George Fox Evangelical Seminary is accredited by the Association of Theological Schools in the United States and Canada and by the Northwest Association of Schools and Colleges.

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 Graduate School of Clinical Psychology is accredited by the American Psychological Association. Doctor of Psychology (Psy.D.) 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.

The other 12 members of the Christian College Consortium are Asbury College, Wilmore, Kentucky; Bethel College, St. Paul, Minnesota; Gordon College, Wenham, Massachusetts; Greenville College, Greenville, Illinois; Houghton College, Houghton, New York; Malone College, Canton, Ohio; Messiah College, Grantham, Pennsylvania; Seattle Pacific University, Seattle, Washington; Taylor University, Upland, Indiana; Trinity College, Deerfield, Illinois; Westmont College, Santa Barbara, California; and Wheaton College, Wheaton, Illinois.

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

PLACE

*George Fox
University*

OUR HERITAGE

George Fox University serves students at a number of locations in the Pacific Northwest, including its Portland Center, Boise (Idaho) Center, and teaching sites in Salem and Eugene. For its main campus, however, George Fox University's "place" is Oregon, the lower Willamette Valley, Newberg, on a 75-acre tree-shaded campus adjacent to a wooded ravine in a residential neighborhood. This place offers a variety to meet most interests: a friendly community close (23 miles) to a major metropolitan environment of 1.7 million people, 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, agriculture, and forest products.

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 students, faculty, and staff its Old Town district, a downtown transit mall, 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 OMSI (the Oregon Museum of Science and Industry). Every June the city holds its Rose Festival, with three parades, a coronation, and 25 days of other 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, the largest urban wilderness. 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 17,700, with many residents living in Newberg and commuting to Portland for their jobs. 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 83F and a mean daily low in January of 32E. 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.

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 further and more advanced education. That time came September 9, 1891, with the opening of the doors of Pacific College. Fifteen students were counted on opening day.

In the 110 years since George Fox University's founding, there have been major changes, of course, including the name of the University itself, changed in 1949 because of the many "Pacific" colleges and retitled 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 with 300 students on a campus in Tigard, Oregon.

From only a handful of courses in the 1890s, the University now offers 35 undergraduate majors and graduate programs in psychology, counseling, education, business, ministry, and religion. In all, more than 13,000 students over the years have called this institution their alma mater.

George Fox has grown rapidly in the last two decades — both in reputation and facilities. For 13 years, the University has been named as one of “America’s Best Colleges” by U.S. News & World Report, and in 2000 ranked first in academic reputation among Western regional liberal arts colleges in the 15 states from Texas to Hawaii. George Fox also is second on the magazine’s “Great Schools at Great Prices” list for the region’s best values. National recognition also has come from the John Templeton Foundation, which has selected George Fox as one of 100 in its Honor Roll of Character-Building Colleges.

Following a campus master plan, George Fox has expanded to 75 acres in recent years. A \$16 million Centennial Campaign funded a new science building and restoration of Wood-Mar Auditorium, opened in 1995. A \$22 million Legacy Campaign is funding the new \$7 million Stevens Center, opening in 2001. More than 2,700 students come to George Fox from across the nation to participate in the experience of sharing faith and learning with dedicated faculty and administrators.

Undergraduate students live, study, work, and play in buildings that range from those with historic significance to some of the most modern anywhere. Depending on the program, graduate students attend classes either on the Newberg campus or at one of the University’s teaching sites in Portland, Salem, or Boise. Off-campus teaching sites are also the location of classes offered through the George Fox degree-completion program for working adults.

Even as it expands its mission by offering graduate programs and serving adult learners, George Fox University remains committed to providing its 1,400 traditional undergraduate students with a residential campus atmosphere. 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” printed on page 2. 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 nine 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.

CAMPUS FACILITIES

Bounded on three sides by a residential area, the George Fox Newberg campus borders Hess Creek, with a natural setting that is being preserved with its tall trees, ferns, and wildflowers. The spacious campus has been developed in recent years according to a master plan that features a campus academic quadrangle; a recreational section with sports center, track complex, and athletic fields; and a living area with major residence halls. The facilities include:

Armstrong House, a Newberg historic building, was constructed in 1923 and purchased by the University in 1995. Located at 215 North Center Street, it houses offices for University Advancement.

Barclay House, at 1313 East North Street on the east side of campus, was purchased in 1994. It houses a housing assistant area coordinator and 11 students on two levels.

The **William and Mary Bauman Chapel/Auditorium**, opened in the fall of 1982 as the final phase of the Milo C. Ross Center, seats 1,150 persons in a facility that is among the finest in the Northwest. Rotating art exhibits appear in the adjacent Donald Lindgren Gallery.

Beals House, located at 1109 Hancock Street, was purchased in 1992. It houses eight students.

Beebe Residence Hall, opened in 1991, is the third unit of a three-building minidorm complex in the Hess Creek greenway. It houses 40 upper-division students in two-room suites, with women on the first two floors and men on the third. It also contains the east campus student post office.

Brougher Hall, erected in 1947 and remodeled and enlarged in 1959 and 1961, contains classrooms and art facilities.

Campbell House, purchased in 1995, is located at 612 N. Meridian Street. It houses six students.

Carey Residence Hall, built in 1980, provides housing for 32 upper-division students in eight suites. It is the first unit of a three-building minidorm complex situated in the Hess Creek canyon.

Centennial Tower, constructed in 1990 to launch George Fox University’s centennial year celebration, was designed by noted architect Pietro Belluschi to be the campus focus and centerpiece. This 65-foot-tall structure at the campus center features carillon, four clocks, and the University’s original bell.

Center Street House is a former residence converted to offices in 1992. It houses the Center for Peace Learning, with office and library/conference room, and offices for the history and political science department.

Colcord Memorial Field contains a field and polyurethane track resurfaced in the fall of 1993.

Edwards Residence Hall was constructed in 1964 and renovated in 1995. Overlooking Hess Creek canyon, it is a residence for 54 men and 52 women with separate-wing housing for 106 students.

CAMPUS FACILITIES

Edwards-Holman Science Center, opened in 1994, houses the Department of Biology and Chemistry and the Department of Mathematics, Computer Science, and Engineering. The building has a lecture hall, five classrooms, 16 laboratories, and 13 offices. An atrium connects it with Wood-Mar Hall.

The **Event Services Office** is a former residence at E. North and N. Center streets, adjacent to Newlin Apartments.

Fell House is located at 1216 Hancock Street.

It was purchased in 2000 and houses nine students.

The **Financial Affairs Office**, at the southwest corner of North River and Sheridan streets, is a city historic building purchased by the University in 1994. Renovated for office space in 1997, it houses the Financial Affairs Office, including Human Resources.

Foxhole is the student coffee house, located at 1110 E. Sheridan Street. The building, purchased in 1992, contains the graduate student lounge.

Fry House, at the corner of Sheridan Street and Carlton Way, was purchased in 1992. It is the home for the associate dean of students.

Fulton Street House, located near Villa Road at 1508 E. Fulton Street, houses an area coordinator for student housing. It was purchased in 2000.

Gulley House, near the intersection of Sheridan Street and Carlton Way, was purchased in 1992. It houses 10 students.

Hancock Street House was added to the campus in 1996. It houses 14 students at 1108 E. Hancock Street.

Hancock Commons, built in 1964-65, enlarged in 1979, and renovated and expanded in 1994, contains the Esther Klages Dining Room, the Bruin Den, the Cap and Gown Rooms, and the Executive Dining Room.

The **Herbert Hoover Academic Building**, built in 1977, houses the Kershner Library and the 160-seat Kershner Lecture Hall, classrooms, and faculty offices. The first floor has offices for business and sociology/social work departments. The second floor has offices for psychology faculty. A display of Herbert Hoover memorabilia was opened in 1997 on the first floor.

Hester House, at 212 River Street, was purchased in 1992. It houses six students.

The **Hobson-Macy-Sutton Residence Hall complex**, completed in 1977, is the largest residence facility on campus, housing a total of 222 students. A central lobby is shared by the three buildings. The buildings are connected by outside walkways and an underground tunnel.

Hoskins House, purchased in 1993, houses 10 students. It is located at 214 River Street.

Kelsey House, purchased in 1997, houses six students. It is located at 610 N. Center Street.

Kershner House, purchased in 1970 and remodeled in 1979, is a residence unit for six students.

Lemmons Center, built in 1964 and remodeled in 1997, is the combination of three hexagon modules providing classrooms, offices for education and family and consumer sciences faculty, and Calder Lecture Hall, which seats 165.

Lewis Apartments provide housing for 56 upper-division students in a total of 16 units.

McGrew House, located at Hancock Street and Carlton Way, houses 12 students. It was purchased in 1992.

The **Media Communication Center**, completed in 1979, houses a television production studio, as well as offices and supporting facilities.

Meridian Street House is at 206 N. Meridian Street. A residence purchased in 1995, it houses the graduate education faculty and staff.

The **Virginia Millage Memorial Rose Garden** has 224 plants of 43 varieties in 24 beds. The 72-foot-diameter circular garden was created in 1992, honoring a George Fox alumna and volunteer leader.

Minthorn Hall, constructed in 1886 and on the National Register of Historic Places, is the only first-generation building still existing. Remodeled and refurbished in 1962, 1989, and 1992, it houses faculty offices for writing, literature, communication arts, and languages; two classrooms; and the International Student Center, with faculty offices, conference room, and a lounge/reception area.

The **Curtis and Margaret Morse Athletic Fields**, dedicated in 1989, contain a baseball diamond, softball field, soccer field, and practice areas.

Mum House, acquired in 1994, houses eight students. It is on the east side of Hess Creek Canyon on East North Street.

The **Murdock Learning Resource Center**, completed in 1988, houses nearly 140,000 volumes on three floors. Its features include study carrels and study rooms; special collections concentrating on Quaker, Hoover, and peace studies; University and Northwest Yearly Meeting archives; microform readers; CD-ROM workstations; Internet connectivity including access to numerous research databases; and the curriculum library.

CAMPUS FACILITIES

Newlin Apartments, located on North Street, are four units available for use by 16 upper-division students.

The **North Street Annex**, opened in 1998, contains an art studio and lab, classrooms and office space in the west half. The east half houses the main campus post office and print room, relocated to this site in 2001.

Parker House, a one-story duplex, was purchased in 1992. Located on Sheridan Street across from the Pennington Hall parking area, it houses eight students.

Pennington House, a historic home, was built in 1899 at the southeast corner of Sheridan and Center streets, and was purchased by the University in 1993. For 57 years it was the home of Levi Pennington, the 30-year president of Pacific College (George Fox University's predecessor). It also houses the Alumni and Parent Relations Office.

Pennington Residence Hall, built in 1962 and renovated in 1994, is a residence hall for 102 students and a resident area coordinator's apartment, with alternate-wing housing for men and women.

The **Plant Services Building**, opened in 1998, contains work areas, storage, and offices for custodial, maintenance, and grounds personnel.

The **Prayer Chapel**, overlooking Hess Creek canyon east of Edwards Residence Hall, was completed in 1995. It is available to all who seek a private place for devotions and prayer.

The **President's/University Relations Office**, opened in 1991, is a remodeled residence at Sheridan and River streets, redesigned as the administrative center for the office of the president, university relations, publications, and public and sports information.

The **Milo C. Ross Center**, opened in 1978, houses the Religious Studies and Music departments, including classrooms, studios, practice rooms, music listening labs, and faculty offices. The William and Mary Bauman Chapel/Auditorium, seating 1,150, was added in 1982.

Riley House is located at 1212 E. Hancock Street. Purchased in 2000 and renovated in 2001, it houses 10 students.

Schomburg House, at 608 N. Meridian Street, was purchased in 1998. It houses six students.

Security Services, headquarters for the University's security personnel, is located in a remodeled historic residence at Meridian and Sherman streets, the campus' main entrance.

Sheridan Street House was converted to student housing in 1999 and houses six students. It is located at the corner of Meridian and Sheridan streets.

Sherman Arms Apartments, located on east Sherman Street, consist of six units for married George Fox students.

The **Edward F. Stevens Center** opened in 2001, the newest campus building. It houses offices and services for student life, housing/residence life, career services, campus ministries, multicultural student services, graduate and undergraduate admission, enrollment services, the registrar, financial aid, and student accounts. It also contains classrooms and the institutional technology center on the third floor.

The **Student Union Building** built in 1958 and enlarged in 1968 and 1979, includes student government offices, the University Store (renovated in 1994), student post office, and a recreation room.

Tennis Courts are located on the edge of Hess Creek canyon south of Colcord Field. The five courts were constructed in 1994.

Tilikum Retreat Center, located on 92 acres in the Chehalem Valley eight miles from campus, is a retreat, camping, and educational center. Students, church groups, families, and community organizations enjoy 77 acres of woods and meadows, a 15-acre lake, an overnight retreat center, a lakeside recreation building, and a restored one-room schoolhouse.

The **University Fund Office**, at 211 N. Center Street, is a former residence, purchased in 1998 and renovated in 1999 for office space. It houses the staff for the University Fund, including the alumni telephone team.

University Residence Hall, constructed in 1996 on the east side of Hess Creek canyon's north end, is a three-story residence for 124 students, with men and women living on alternate floors.

Villa Road House is a city-designated historical building constructed in 1912 and purchased by the University in 1995. It houses 11 students at 617 N. Villa Road.

Wesner House, on Carlton Way, accommodates 13 students in a two-story residence constructed in 1924 and completely renovated in 1980.

Wesner Village consists of 12 apartments housing 48 upper-division students.

The **Coleman Wheeler Sports Center**, completed in 1977, is the University's largest building. It contains the James and Lila Miller Gymnasium, featuring three basketball courts and seating for 2,500 people. The center also contains activity and weight rooms, handball/racquetball courts, health and human performance classrooms, and faculty offices.

Wilder House, in the Hess Creek canyon south of the Hobson-Macy-Sutton residence halls complex, was acquired in 1999. It houses 12 students.

Willcuts Residence Hall, opened in 1990, is the second unit of a three-building minidorm complex in the Hess Creek greenway. It houses 40 upper-division students in two-room suites, men on the top floor, women on the two lower floors.

Winters Apartments, located on River Street, consist of 10 units housing 40 George Fox students.

Wood-Mar Hall, constructed in 1911, houses Wood-Mar Auditorium, seating 250. The Academic Affairs Office is located on the second floor.

Woodward House, at the northeast corner of River and Hancock streets, was purchased in 1993, giving the campus the home of one of the founders of George Fox University. Renovated in 1996, it has offices for the campus Health and Counseling Services.

Woolman Apartments consist of 14 units with capacity for 48 students. Located at 1114 East Hancock Street, they were acquired and renovated in 1994.

STUDENT ACTIVITIES AND ORGANIZATIONS

Student organizations provide opportunity 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).

Athletics

George Fox University has excelled in athletics during recent years.

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, 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:

- (a) 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, institutional personnel) than on the general public and its entertainment needs;
- (b) Award no athletically related financial aid to any student;
- (c) Encourage the development of sportsmanship and positive societal attitudes in all constituents, including student-athletes, coaches, administrative personnel, and spectators;

(d) Encourage participation by maximizing the number and variety of athletics opportunities for their students;

(e) Assure that the actions of coaches and administrators exhibit fairness, openness and honesty in their relationships with student-athletes;

(f) Assure that athletics participants are not treated differently from other members of the student body;

(g) 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;

(h) Provide equitable athletics opportunities for males and females and give equal emphasis to men's and women's sports;

(i) Give primary emphasis to regional in-season competition and conference championships; and

(j) 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.

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.

Intramurals

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.

Media

Publications include a newspaper, *The Crescent*; the yearbook, *L'Ami*; a photo directory, *The Bruin*; 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.

Music

Music activities are available to students with varied musical talents. Public performances are presented by the Festival Chorus, the Concert Choir, the Chehalem Chorale, DaySpring, the Chapel Choir, the Wind Ensemble, the Chehalem Symphony Orchestra, the Jazz Ensemble, the Handbell Ringers, and music theatre.

The University's student chapter of the Music Educators National Conference provides a bond between students in music education and members of the professional organization. Students receive the Oregon Music Educator . Members may attend meetings of this professional educators organization. The club also sponsors speakers on new developments in the music education field.

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. A limited number of 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.

Theatre

Theatre, part of the Fine Arts Department, presents two major dramas and a music theatre production each year, as well as student-directed short plays and informal course-related performances. Augmenting the on-campus theatre program is the George Fox University Players, a touring drama group, which presents improvisational theatre throughout the Northwest at churches, prisons, camps, retreats, schools, and marketplaces.

No Limits Leadership Development Program

The No Limits 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.

CHAPEL 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 Campus Ministries Office and its Spiritual Formation Program, which is

made up of three primary components:

1) praise and worship, 2) study, and 3) ministry/service.

Through 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. Whether done one-on-one or in small or large groups, 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.

All students 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 from 10 to 10:50 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.

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.

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 that they will comply with these expectations in every respect and conduct themselves as responsible citizens. All students are expected to maintain written standards of behavior, which include 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 result 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 alcohol, tobacco, or illegal drugs. Gambling and 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.

Students found in violation of the written standards of conduct and the University lifestyle agreement may lose good standing and citizenship with the Student Life Office. A student's participation in off-campus programs and other activities may be jeopardized as a result of the change in status.

LIVING ARRANGEMENTS

Housing Policies

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

Full-time students must occupy University-owned housing except if they have been granted a Community Living Option (CLO). For a full description of the CLO process, see the Undergraduate Student Handbook.

A notebook of off-campus housing opportunities is available in the Student Life Office (Stevens Center, third floor).

New students will be mailed a Confirmation of Enrollment and Roommate Selection Form with their admission packet. Housing assignments generally will not be made until this form has been completed and returned to the Admission Office and the tuition deposit has been paid. Housing assignments begin late in May and continue through the summer. Housing assignments generally will not be made until a housing selection form is received.

Nine modern residence halls house approximately 650 students. The newest of these facilities is University Residence Hall, which houses 124 students. It opened in the fall of 1996 and houses a floor of men and two floors of women residents. Pennington Residence Hall, with a capacity of 102, has one wing for men and one for women students. Edwards Residence Hall, a residence for 106, also has one wing for men and one for women.

The Hobson-Macy-Sutton Residence Hall complex houses 222 students in three-floor buildings. Macy Residence Hall and Hobson Residence Hall are for women, while Sutton Residence Hall houses men and women.

Carey Residence Hall houses 32 men and women in eight suites on two floors, the top floor for women, the bottom floor for men. Willcuts Residence Hall houses 40 students in 10 suites on three floors. The top floor is for men, the bottom two floors for women. Beebe Residence Hall is set up the same as Willcuts Residence Hall.

Campus housing also includes five apartment complexes and several houses for upperclassmen. There are approximately 1,000 students living on campus. Housing administration is handled by the associate dean of students in the Student Life Office. Campus housing is furnished with beds, mattresses, and other essential furnishings. Students are expected to provide their own bedding, towels, etc. Coin-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 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 an individual, will be charged on a prorated basis among the occupants of the unit. A final inspection by the resident assistant, house manager, or apartment manager 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 checkout 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.

Residence hall rooms on the first floor of Pennington Residence Hall have been designated and equipped for physically handicapped/disabled student housing as needed. There is access for wheelchairs and accommodation for a guide dog.

Disabled students needing accommodations should contact the Enrollment Services and Student Life offices well in advance of attendance so that specific attention can be made to assist in providing living arrangements and learning accommodations.

Food Services

With the exception of students who have been approved for exemption from the meal plan, all resident students are required to eat on the University board plan in Heacock Commons. The University offers meal plans for all students eating in Heacock Commons. A charge is made for guests. Commuting students may obtain meal tickets through the Food Services Office. Commuting students also may purchase the full meal plan and must indicate their intent to do so at the time of registration.

◆ Meal Plan Options for 2001-02

All freshman and sophomore students must participate in the full continuous dining program. Juniors (62 credits or more) may choose between continuous dining or 14 meals per week. Seniors (93 credits or more) may choose between continuous dining, 14 meals per week, seven meals per week (plus \$175 flex spending per year), or full exemption.

Food service begins during Freshman Orientation in the fall semester and ends on the last Saturday of the semester. Service begins again the Sunday evening prior to spring semester and concludes on the last Saturday of the semester, with the exception of spring vacation. The food service will not operate during this time.

STUDENT SERVICES

Students may petition the dean of students for the possibility of having the food service requirement waived. Only in exceptional circumstances will such petitions be granted. A checklist for exemption procedures and guidelines is available in the Student Life Office. All petitions are due at the end of the second full week of each semester.

Motor Vehicles

The ownership or possession of automobiles or other motorized vehicles by students is permitted. Students are advised to maintain appropriate insurance coverage on such vehicles. Any student who is registered and attending classes, whether full or part time, must have his or her motor vehicle registered with the Security Office and pay a nonrefundable parking fee (see page 123) to park on campus. Failure to do so will result in fines.

STUDENT SERVICES**Student Life Office**

This office, located in the Stevens Center, is responsible for the organization and programming of residence life and housing, student government, student activities, career services, multicultural services, security, student leadership, 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.

Career Services Office

This office, located on the third floor, Stevens Center, is the center for career education, guidance, and employment resources. This covers selecting a major and internship, finding employment, and attending graduate school. Resources include career courses, workshops, assessments, counseling, internship guidance, special events, job search skill training, and a library with occupational, graduate school, and employer information. Permanent, summer, student employment, and internship jobs are posted daily. Comprehensive computer career guidance, Alumni Career Contact Network, Degrees-at-Work Dinner, Etiquette Dinners, the Internship Fair, the Oregon Liberal Arts Placement Consortium Jobs Fair, Graduate School emphasis, Professional Preview Day, and the JobTrak online job listing service are special features. Electronic access is available through the Foxmail Jobs Board and our Internet home page. Teacher placement files are generated and maintained in this office. Staff includes the director, associate director, secretary, and intern.

Graduate Student Office

This office, located at the Portland Center and in the Stevens Center on the Newberg campus, is responsible for organizing and coordinating the services of the graduate student population. The director serves as a resource person and advocate for the students within the University. Graduate students are encouraged to contact this office whenever they are concerned about aspects of University life.

Health and Counseling Services

The Health and Counseling Center 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 when class is in session, September through mid-May. Services are available by appointment.

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. Group therapy, 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 Director

The director of international student services, serving as the advisor for international students, 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 director seeks to help students adjust to their new surroundings and to help the campus community develop a sensitivity to their needs. The director also encourages their participation in the academic and social life of the University and in the exploration of the surrounding American culture, as well as assists students in complying with INS regulations. The advisor is the international student's friend and advocate.

Multicultural Services

The Office of Multicultural Services exists to help the George Fox community believe and practice the biblical truth that every person is valuable and gifted by God, and that God creates and celebrates racial and cultural diversity and wants us to join him in his appreciation and celebration. The office seeks to facilitate cultural sharing and education for the entire George Fox community and to provide an affirming, supportive environment for students of color. It is dedicated to helping students of color successfully complete their George Fox University education.

The multicultural advisor serves as the advisor to the student Multicultural Club, which learns about various cultures, hosts cultural activities, and serves as a student support system. The Multicultural Club works with the Office of Multicultural Services to coordinate the annual Cultural Celebration Week.

Security Services

The Security Services Department at George Fox University assists all students, staff, faculty, and guests to our campus community. Officers provide safe escorts and monitor activity on the campus. Maps of the campus as well as visitor passes and information are available in the Security Services office located at Meridian and Sherman streets, the campus's main entrance. Office hours are Monday-Friday, 8 a.m. to 4 p.m. However, Security is available by phone 24 hours a day, seven days a week, by calling 503-554-3842.

ENROLLMENT SERVICES

This office, located in the Stevens Center, is responsible for the organization and administration of admission, financial aid, student accounts, orientation, freshman seminar, retention, disability services, professional studies academic advisement, and institutional research. The vice president for enrollment services coordinates these services.

Admission

Four admission offices assist students with enrollment at George Fox University: The Undergraduate Admission Office, located on the second floor of the Stevens Center, serves students planning to enroll in traditional undergraduate programs on the Newberg campus. Professional Studies Admission, located in the Portland Center, assists students seeking enrollment in the adult degree-completion programs. The Graduate Admission Office serves students enrolling in the University's education, counseling, business, and psychology graduate programs. Admission counselors are available on both the Portland and Newberg campuses to assist students. Seminary Admission, located at the Portland Center, assists students seeking admission to ministry graduate programs.

Disability Services

The Enrollment Services Office, located in the Stevens Center, coordinates services for students with documented disabilities.

Financial Aid Office

This office, located in the Stevens Center, awards scholarships, grants, loans, and other forms of financial assistance.

Registrar's Office

This office, located in the Stevens Center, registers students for classes, provides degree audit information, and records grades. Students change their academic majors and advisors and order transcripts through this office.

Student Accounts

This office, located in the Stevens Center, bills students for tuition, fees, room and board, and other expenses related to attending college. The office assists with payment plan options and counsels students regarding the various plans.

**ACADEMIC
PROGRAMS**

*George Fox
University*

COURSE CHALLENGE PROGRAMS

Students may reduce the number of required courses and add flexibility to their undergraduate years by 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, that scores 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, etc. These may be taken at any time 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. There is a test fee of \$40 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 International Baccalaureate 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 International Baccalaureate transcript to receive consideration. Credits awarded as a result of International Baccalaureate 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.

FACILITIES

Media Communication Center

The campus Media Communication Center provides facilities, studio, and EFP video equipment for the media communication major. The studio contains a mix of analog and digital equipment for tape-based and non linear editing. This facility also is used in the authoring and production of interactive multimedia.

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

George Fox University maintains libraries at both the Newberg and Portland Center campuses. The Murdock Learning Resource Center is a three-story, 35,000-square-foot building serving the Newberg campus from a central location. The library presently houses nearly 140,000 volumes and receives over 900 periodical titles. The library 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 peace-keeping.

The Computer-Assisted Instruction Lab is located in the MLRC's lower level. Here, students may fulfill certain course requirements and may have access to word processing and other computer functions.

The Portland Center library houses nearly 70,000 volumes and receives over 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. The catalog also gateways to numerous other academic libraries and is available via the Internet. Internet access to other resources is available from both libraries. The library system is a member of OCLC, with direct access to a database of 45 million bibliographic records that represent the holdings of thousands of member libraries in the region and the nation. Interlibrary loan services are available at both sites. Computers at both library locations provide access to numerous indices and abstracts, some of which are linked to full text sources. George Fox is a member of the Portland Area Library System (PORTALS), through which access is provided to member libraries and numerous databases. The University is also a member of Orbis, a consortium of academic libraries with a union catalog located at the University of Oregon. Through consortia agreements, George Fox students may use the Portland State University library, as well as numerous other private and state university libraries in Oregon and Washington.

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.

OFF-CAMPUS PROGRAMS

George Fox University students may participate in Council for Christian Colleges and Universities (CCCU) student programs, Christian College Consortium Exchange, and selected programs with which the University has established agreements. CCCU programs include the Middle East Studies Program, American Studies Program, Latin America Studies Program, Los Angeles Film Studies Program, China Studies Program, Russian Studies Program, and the Oxford Honors Program. Consortium Exchange permits students to enroll for one semester at one of the 12 other member institutions or to participate in the Africa Studies Program. Other study opportunities are described below.

To participate, students must apply to the program and complete a George Fox application. Students normally participate in programs during the second semester of their sophomore year, their junior year, or the first semester of their senior year. Because a limited number of students will be approved to participate, students may enroll for one off-campus semester-long study program during their undergraduate studies.

George Fox student participants must be approved by a campus selection committee. Selection will be determined based on the student's academic and citizenship standing (minimum 3.00 grade point average required) and on the applicability of the study program to the student's major field of study. Applications for participation are available in the Registrar's Office.

A student may not be considered in good standing and/or to have citizenship standing if he or she:

- Has more than two semesters of Spiritual Formation credit deficiency.
- Has been in violation of the lifestyle agreement within the two semesters prior to application for one of the above programs. Violations of the lifestyle agreement may include, but are not limited to, alcohol and drug use/abuse, tobacco use, sexual immorality (including adultery, homosexual behavior, and premarital sex), gambling, and the use, viewing, or possession of obscene or pornographic articles and/or literature.
- Is currently on student life probation. Probation may include occasions in which the student has signed a behavioral contract with the Student Life Office. Behavioral contracts are generally utilized for violations of the lifestyle agreement, but can also be used for violations of the residential life policies, such as violation of floor hours, R-rated movie violations, etc.

American Studies Program

The American Studies Program, sponsored by the Council for Christian Colleges and Universities, is designed for juniors and seniors with a wide range of academic majors and vocational interests. Students are involved in the American Studies Program for periods of three or four months. The internship/seminar opportunity is available starting in September and in January.

The American Studies Program was created to provide field experience and study opportunities in Washington, D.C., for diverse majors and personal interests. The program is based on the principle of integrating faith, learning, and living through both a real-life work experience and a study program. Students spend their time in Washington serving as interns, participating in a contemporary, issues-oriented seminar program, and living in a small Christian community. Internships are available in congressional offices, socialservice agencies, think tanks, cultural institutions, and many other organizations. Further information and application forms are available from the registrar.

OFF-CAMPUS PROGRAMS

Consortium Visitor Program

The Christian College Consortium, described on page 3, 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 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 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.

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 main types of off-campus experience 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 (GED 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 credit 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 credit hours
— GED 375	2 to 12 credit hours
— 475	2 to 12 credit hours

Applications for field experience should be requested through the registrar. Request forms 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” or “no pass.”

International Trade Institute

Through the International Trade Field Study Program, based in Portland, Oregon, college seniors have the opportunity to participate in a field experience and seminar program focusing on foreign trade, international business, global politics, and area studies. This program, sponsored by the state of Oregon, is a cooperative effort of state government, the business community, and Oregon’s public and private colleges. It links traditional classroom learning with direct experience in international commerce.

Los Angeles Film Studies Center

Under the direction of the Council for Christian Colleges and Universities, the Los Angeles Film Studies Center makes a “Hollywood Semester” available to upper-division George Fox University students who qualify and who are accepted. Its purpose is to enable college students to serve in various aspects of the film industry with professional skill and Christian integrity. Located in Burbank near major production studios, the semester-long program combines seminar courses with internships in various segments of the film industry, providing the opportunity to explore the industry within a Christian context and from a liberal arts perspective.

Students who complete the semester may then apply for a semester-long internship in their field of interest. See the registrar for further details and application forms.

OICACross-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.

Oregon Extension

The Oregon Extension offers a fall semester of community living and interdisciplinary studies. Forty students from across the country earn 15 hours credit in eight disciplines, studying one course at a time and living in wood-heated cabins in the Cascade Mountains of southern Oregon. Open to juniors and seniors (and determined sophomores) with a 3.0 grade point average, the seminar-style program focuses on contemporary society, human stories, and social theory as they relate to Christianity. Small group discussions and writing tutorials ensure increased academic confidence in speaking, writing, and critical reading. Backpacking, rafting, a San Francisco trip, and no weekend assignments round out the program.

Oregon Theological Consortium Cross-Registration

A full-time student may take one course a semester at one of the Oregon Theological Consortium colleges or seminaries. Similar guidelines and procedures as for OICA cross-registration apply. Contact the George Fox University registrar for a current list of OTC schools, information on their offerings, and application procedures.

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.

OVERSEAS STUDY PROGRAMS

China Studies Program

Students interested in China will have the opportunity to engage this intriguing country from the inside. The semester will include study of standard Chinese language, geography, and history; religion and culture; and China's modern development. Participants will travel throughout China to such places as Beijing, Shanghai, Xi'an, and the Guangzhou/ Hong Kong region. They will have ample opportunity to interact with Chinese faculty and students on the campus of the host university and with students of English whom they will assist as conversation partners. The China Studies Program is offered through the Council for Christian Colleges and Universities.

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 overseas study. The program's general policies are as follows:

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 overseas study.
2. 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.
3. Students will pay room and board 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.

4. Students must have a minimum cumulative grade point average of 2.00 at the end of the fall semester preceding the May tour.

5. Students must be in good standing with the Student Life Office in the fall and spring semesters preceding the May tour (see page 19).

6. Students must intend to return and graduate from George Fox University.

7. Student accounts must be current as of February 15 the year of the tour.

8. 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.

9. 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.

10. 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.

11. 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.

Latin American Studies Program

Based in San Jose, Costa Rica, the Latin American Studies Program, under the direction of the Council for Christian Colleges and Universities, offers a semester of study and travel in Central America. Students live with Costa Rican families, participate in a service opportunity or internship, travel to other Latin American countries, and engage in both a language and a seminar program. Seminars deal in-depth with Latin American culture, history, politics, economics, and religious life. Three specialized academic tracks — Advanced Language and Literature Studies, International Business and Management, and Tropical Sciences — are available to qualified students.

ON-CAMPUS PROGRAMS**Middle East Studies Program**

The Middle East Studies Program in Cairo, Egypt, offered through the Council for Christian Colleges and Universities, provides students with opportunity to study Middle Eastern cultures, religions, and conflicts from within this diverse and strategic region. Juniors and seniors from Christian colleges participate in interdisciplinary seminar classes, receive Arabic language instruction, and serve as interns with various organizations in Cairo. The MESP encourages and equips students to relate to the Muslim world in an informed and constructive manner.

Oxford Honors Program

Junior and senior honors students will have the opportunity to study in England by participating in an interdisciplinary semester in Oxford through a partnership program with the Centre for Medieval and Renaissance Studies, affiliated with Keble College of the University of Oxford. Under the guidance of the Council for Christian Colleges and Universities, students will take part in two self-designed tutorials, a small-group seminar, and an integrative survey course. The semester will also include travel to significant historical and cultural sites in England.

Russian Studies Program

Based in Moscow, St. Petersburg, and Nizhni Novgorod (formerly Gorky), the Russian Studies Program, under the direction of the Council for Christian Colleges and Universities, includes Russian language training and seminars on Russian history and culture. Students also participate in a service project as they explore the challenges facing Russians today in the light of biblical truth. Students reside in university accommodations in Nizhni Novgorod and spend the final three weeks with Russian families.

Study in Africa Program

Students may apply to spend an exchange semester or year at Daystar University College in Nairobi, Kenya, in the Study in Africa Program operated through the Christian College Consortium. Programs of study include communications, business, education, community development, and Bible and Christian ministries, as well as courses in the history, culture, literature, politics, art, music, and religions of Africa. All instruction is in the English language, offered by a faculty composed primarily of African nationals. The application deadline is January 15 for the following academic year. Contact the Registrar's Office for application information.

All course work from Daystar will be transferred in as a Pass/No Pass, with a grade of D considered a passing grade.

Study in Spain Program

Students may apply to study in Spain for one semester through a cooperative agreement with Trinity Christian College of Palos Heights, Illinois. The Study in Spain Program is designed primarily for students majoring or

minoring in Spanish. Students study in Seville, Spain, and live in local homes while attending classes with students from Trinity and other colleges. Application to the program must be coordinated with foreign language faculty. Students must complete forms related to off-campus study available in the Registrar's Office.

Further Information

For further information and application materials for the above programs and other overseas opportunities, contact the director of overseas study or the Registrar's Office.

Students must submit both the specific program application and the George Fox application for participation, which are available through the Registrar's Office, or from the director of overseas study.

ON-CAMPUS 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 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 credit hours are limited to 14 for fall semester.

Center for Peace Learning

The Center for Peace Learning was established in 1985 after a growing concern among administrators, faculty, and students that George Fox University have an active learning program dealing with peacemaking and conflict resolution. Planning for the center was the specific result of searching questions about the University's contribution to peacemaking made by Senator Mark Hatfield in his address at the 1984 inauguration of President Edward Stevens. Hatfield now teaches a peace studies course at George Fox.

The center coordinates a number of courses, taught by faculty in various departments, which can be combined in a minor or used to enrich preparation for service in such careers as social work, pastoral ministry, peace education, teaching in public or private schools, diplomacy, and business. In addition to regular course work, the center offers a variety of learning experiences for students and community participants, including lectures, films, international work/study trips, and field experience placements. Research is encouraged and made possible by the peace collection in the M. J. Murdock Learning Resource Center and by the specialized materials in the Center for Peace Learning.

The Center for Peace Learning conducts a study program in conflict management to prepare students for practical peacemaking in their work, church, community, and family. (See page 49.) Certificates are awarded upon completion of the program, details of which are presented in the Peace and Conflict Studies section of this catalog.

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 color computers, laser printers, a color printer, a scanner, CD-ROM, and laserdisk 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.

English Language Institute

George Fox University offers an intensive English as a second language program during the academic year for international students who need to improve their academic English skills. For details of curriculum, credit, and enrollment, see page 46.

Freshman 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 Freshman Seminar Program to assist students as they integrate into the academic and social life of the University community.

All first-time freshman students who matriculate fall semester participate in the Freshman Seminar Program. 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 Freshman Seminar during the first five weeks of the fall 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 each other, with a faculty member, and with a returning student during the first semester of enrollment.

Herbert Hoover Symposia

Every two years since 1977, members of the history faculty have invited to the George Fox University campus leading authorities on the life and career of Herbert Hoover. These meetings are attended by professional historians, students, faculty, and friends of the University. Credit is offered to students who study selected aspects of the rich and varied career of the 31st president of the United States.

The ties between Herbert Hoover and George Fox University began in 1885. That fall, 11-year-old Bert Hoover, recently orphaned in Iowa, moved to Newberg, Oregon, to live with his uncle and aunt, Dr. Henry John and Laura Ellen Minthorn. Minthorn had recently opened Friends Pacific Academy, and Bert enrolled in the first class shortly after his arrival. He studied under dedicated Quaker mentors and helped pay his way by tending furnace, sweeping floors, and cleaning blackboards.

“As a young student there for three years,” President Herbert Clark Hoover said in later years, “I received whatever set I may have had toward good purposes in life.”

The Academy was the predecessor school to George Fox University, which was founded in 1891. Those on campus with a sense of heritage often think of the quiet lad who studied here a century ago. No one dreamed he would grow to be named “Engineer of the Century,” that he would live and work on five continents, that he would direct the greatest humanitarian projects the world has seen, and that in 1928 he would be elected president of the United States.

“I can’t afford to underestimate the potential of any student,” is the way one professor puts it. “The steady gaze of young Bert in those old photos won’t let me!”

Intensified Studies Program

The Intensified Studies Program offers selected students an opportunity to go beyond the normal University curriculum, integrating material from a variety of disciplines and creatively exploring unusual topics largely chosen by students. Sophomores and juniors participate in an innovative Honors Colloquium, earning one hour of credit per semester. Seniors who have completed the Colloquium are eligible to propose an honors research project with a modest research budget. All participants will receive a small scholarship.

Freshmen and sophomores with a GPA of 3.25 or better apply for admission to the program in the spring semester. Applications are reviewed by a faculty committee, and approximately 15 students are admitted each year. The Colloquium involves flexible courses of study designed in consultation with the students. The course, graded on a pass/fail basis, is designed to challenge students with studies outside their major disciplines.

Juniors planning to do a senior honors project apply by submitting a project proposal in the spring semester, which must be approved by a faculty advisor and the directors of the Intensified Studies Program.

PREPROFESSIONAL PROGRAMS

Seniors earn three to five hours of credit per semester for the two-semester research project. Completed projects are evaluated by the advising professor and the program directors. Only those that meet the standards of the Intensified Studies Program are recorded as honors projects and shelved in the University library; others receive regular college credit as independent research.

May Term

This two-, three-, or four-week academic session is used for a variety of domestic and international study tours, regular courses, experimental and enrichment courses, and seminars covering topics of current interest. Juniors Abroad study tours normally occur during this time. May Term offerings are detailed on the class schedule and on supplemental bulletins.

Summer School

In recent years, George Fox University has not sponsored regular undergraduate classes in a summer school. Students have been encouraged to use the summer for work, travel, and cocurricular activities that add to life's dimensions in learning and living.

Independent study and research are available for the summer under curriculum numbers 295 and 495. Applied learning experiences in practical situations under supervision (field education) are available through courses numbered 275 and 475, or GED 375 Cultural Experience. See Field Education on page 20.

Also offered during the summer months are degree-completion courses in applied behavioral studies, management and organizational leadership, management and business information systems, and management of human resources programs; and graduate courses in master of business administration, master of arts in teaching, master of education, administrative license, continuing teaching license, master of arts (theological studies), master of arts in Christian ministries, master of arts in counseling, master of arts in marriage and family therapy, master of divinity, doctor of ministry, doctor of education, and doctor of psychology programs.

PREPROFESSIONAL PROGRAMS**Pre dental, Pre medical, Preveterinary Programs**

George Fox University is pleased with the excellent success students have had in gaining admission to medical and dental 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:

BIO 101, 102	General Biology
CHE 111, 112	General Chemistry
CHE 325, 326	Organic Chemistry
PHY 201, 202	General Physics

One year of mathematics, usually fulfilled by MTH 201, 202 Calculus

Other courses highly recommended are as follows:

BIO 310	Embryology
BIO 322	Comparative Vertebrate Anatomy
BIO 330	Animal Physiology
BIO 350	Genetics
BIO 370	Microbiology
BIO 420	Cell Biology
CHE 310	Analytical Chemistry
CHE 340	Biochemistry
CHE 401, 402	Physical Chemistry

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 admissions tests (MCAT, DAT, WAT, 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 admissions 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 be preparing themselves to understand complex real-world problems from as many perspectives as possible.

As a result, the student 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 PSC 260 Introduction to Law, and to join in activities with other prelaw students.

Prenursing Program

A student can take one or two years of prenursing at George Fox University in preparation for application to a nursing school. George Fox offers the full spectrum of prenursing curricula that allows smooth matriculation into most schools. These courses typically include general chemistry, math, human anatomy and physiology, microbiology, life span human development, cultural anthropology, and others. Students should contact the nursing school of their choice for requirements.

George Fox University has an agreement with Seattle Pacific University School of Health Sciences whereby a specified number of students may be admitted annually to the sophomore year of the SPU nursing program. Consult with the prenursing advisor in the Department of Biology and Chemistry for specific requirements.

**GENERAL
EDUCATION**

*George Fox
University*

GENERAL EDUCATION REQUIREMENTS

GENERAL EDUCATION REQUIREMENTS

To complete an undergraduate academic program at George Fox University, a student must select one of 35* majors to pursue one of two degrees: the bachelor of arts or the bachelor of science. 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.

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 57 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 class may apply toward general education, a major, or a minor. However, any one course may not fulfill more than two requirements. Additionally, all first-semester freshman students who matriculate in the fall are required to enroll for GED 130 Freshman Seminar.

FRESHMEN: All freshmen are expected to register for WRI 110 Freshman Composition in the first year.

All new students with less than junior standing are expected to register for GED 101 and 102 Literature of the Old and New Testaments, and other general education courses during the first year.

*includes three majors offered only through George Fox University's degree-completion program

♦ Bible and Religion

1. GED 101, 102 Literature of the Old and New Testaments. (Freshmen are required to take these courses, or a 3-hour lower-division Bible elective given a superior placement examination.)

6 hours

2. Choose one of the following (required of all):

REL 470 Christian Classics
REL 480 Spiritual Formation
REL 490 Contemporary
Religious Life

2 hours

3. REL 260 History and Doctrine of Friends. Required of all Friends students. An elective course in Bible or religion is required of all other students.

BIB 240 Wisdom Literature (prerequisite: GED 101 recommended)

BIB 250 Psalms (prerequisite: GED 101 recommended)

BIB 260 Life of Christ (prerequisite: GED 102 recommended)

BIB 270 Writings of John (prerequisite: GED 102 recommended)

BIB 310 Old Testament History (prerequisite: GED 101)

BIB 330 Prophetic Writings (prerequisite: GED 101)

BIB 340 Between the Testaments (prerequisite: GED 101, 102)

BIB385 Selected Bible Topics (prerequisite: GED 101, 102, or permission)

BIB 390 Biblical Basis for Peacemaking (prerequisite: GED 101)

BIB 411/412 Acts and Pauline Epistles (prerequisite: GED 102)

BIB 480 General Epistles (prerequisite: GED 102)

REL 250 Great Moments/Key Persons in Christianity

REL 270 Doctrine of _____

REL 380 Christian Beliefs

REL 401/402 Christianity in History

2 hours

4. Transfer students with junior standing (62 semester hours) who have not taken GED 101 and 102 Literature of the Old and New Testaments or equivalent are required to take a 2- or 3-hour Bible course at the 200-400 level in addition to the 4 hours listed under 2 and 3 above, for a total of at least 6 hours.

Total: 10 hours

♦ Communication

1. WRI 110 Freshman Composition. WRI 110 may be waived by a verbal SAT score of 670 or above.

3 hours

2. Choose one of the following:

COM 100 Introduction to Communication

THE 120 Introduction to Acting

THE 220 Oral Interpretation of Literature

3 hours

Total: 6 hours

◆ Health and Human Performance

Physical education activities and/or health education.

Three semester hours of human performance are required to complete the University's general education requirement. Students may enroll in one limited-enrollment human performance activity course per semester and one unlimited-enrollment human performance activity course per semester. This requirement may be satisfied in the following ways:

1. Human performance activity or adapted activity classes. Limit of two semesters of any one activity.
2. A health course from the following list will satisfy a maximum of one hour of the requirement. The two remaining hours of the requirement must be met through activity courses.

HEA 200	Lifestyle Management
HEA 230	First Aid and Safety
HEA 240	Stress Management
HEA 300	Nutrition
HEA 320	Contemporary Health Issues

3. Up to 2 hours 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.

4. Two credits toward the 3-hour requirement may be earned on intercollegiate athletic teams. Only 1 credit in any one sport will count.

5. Any professional activity class meets one hour of the requirement. By permission only.

6. Military service may waive 2 semester credits.

Total: 3 hours

◆ Humanities

Choose 14-15 semester hours, taking five 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.

GED 110	The World of Music
ART 216	Art History Survey to 1600
ART 217	Art History Survey from 1600
ART 111	Drawing
MUS 100	Music Fundamentals
MUS 110	Understanding Jazz
MUS 111, 112	Introduction to Music Literature
MUS 210	Keyboard Literature

2. History

HST 110	Western Civilization to 1648
HST 120	Western Civilization from 1648
HST 150	America and the World
HST 331/332	England

3. Literature

If a student chooses to take two courses in literature to fulfill the humanities general education requirements, the first must be a lower-division course; the second may be lower or upper division.

LIT 100	Introduction to Literature
LIT 220	Great American Writers
LIT 231	Masterpieces of World Literature, Western
LIT 232	Masterpieces of World Literature, Non-Western
LIT 240	Understanding Drama
LIT 270	Great British Writers
LIT 326	American Literature to 1865
LIT 327	American Literature, 1865 to 1914
LIT 328	American Literature, 1914 to the Present
LIT 340	Poetry
LIT 360	Values Through Story and Myth
LIT 376	British Literature to 1660
LIT 377	British Literature, 1660 to 1830
LIT 378	British Literature, 1830 to the Present
LIT 385	Major Authors
LIT 440	Study of the Modern Novel

4. Philosophy (choose a maximum of one course)

PHL 210	Introduction to Philosophy
PHL 230	Ethics

Total: 14-15 hours

◆ Sciences

Choose 18 semester hours from the options listed below. Students must choose two courses from natural science, one from math, and two from social science. Students then choose an additional course from either natural science, math, or social science.

1. Math

Waiver of three semester hours of math requirement for a SAT score above 600.

MTH 100	The World of Mathematics
MTH 120	Intermediate Algebra (Students with SAT of 600 or above are not eligible to take this course.)
MTH 190	Precalculus
MTH 201	Calculus I
MTH 202	Calculus II
MTH 260	Discrete Mathematics
MTH 301	Calculus III
CIS 201	Introduction to Computer Science
CIS 202	Introduction to Computer Science

2. Natural Science

BIO 100	Foundations of Biology
BIO 101	General Biology
BIO 102	General Biology
BIO 221	Human Anatomy and Physiology
BIO 222	Human Anatomy and Physiology

GENERAL EDUCATION REQUIREMENTS

CHE 100	Chemistry of Life
CHE 110	Chemistry and Our Environment
CHE 151	General, Organic, and Biological Chemistry
CHE 152	General, Organic, and Biological Chemistry
CHE 211	General Chemistry
CHE 212	General Chemistry
GSC 120	Foundations of Earth Science
GSC 130	Fundamentals of Geology
PHY 150	Physics of Everyday Life
PHY 201	General Physics
PHY 202	General Physics

3. Social Science

PSY 150	General Psychology
SOC 150	Principles of Sociology
ECO 201*	Principles of Microeconomics
ECO 202*	Principles of Macroeconomics
PSC 150	Introduction to Political Science

*Students may select one, but not both, of these courses to fulfill general education requirements.

Total: 18 hours

◆ Globalization

Choose 6 semester hours from the current course offerings listed below:

REL 330	World Christian Movement
REL 360	Cross-Cultural Outreach
REL 440	World Religions
GRE 202	Hellenistic Greek (second semester)
SOC 310	Cultural Anthropology
SPN 102	First-Year Spanish (second semester)
SPN 201, 202	Second-Year Spanish
FRE 102	First-Year French (second semester)
FRE 201, 202	Second-Year French
GER 102	First-Year German (second semester)
GER 201, 202	Second-Year German
JPN 102	First-Year Japanese (second semester)
JPN 201, 202	Second-Year Japanese
FCS 310	Food, Culture and Society
FCS 380	Evolution of Dress
LIT 232	Masterpieces of World Literature, Non-Western
ECO 360	Global Political Economy
GEO 200	Cultural Geography
PSC 250	International Conflict and Peace
HST 360	Modern Russia
HST 440	History of Africa
HST 470	Far East
HST 350	Latin America
INS 340	International Relations
GED 375	Juniors Abroad
CON 410	Gender Communication Across Cultures

Total: 6 hours

Exemptions and Waivers

Students with adequate background and the desire to take more elective courses are encouraged to check with the registrar and learn how they can test out of any of the above requirements (with the sole exception of a required minimum of 3 hours of Bible). A mathematics SAT score of 600 or above waives 3 hours of mathematics/computer requirements (see page 29). A verbal SAT score of 670 or above waives WRI 110 Freshman Composition

(see page 28). CLEP and Advanced Placement tests earn other exemptions, as do campus-administered examinations.

General Education Requirements for Teacher Education

The following summaries note total hours and exceptions to the University general education policy. Refer to the previous section for specific course options.

Elementary education majors shall complete the following 51-hour general education requirement:

1. Bible and Religion: 10 hours from stated options.
2. Communication: 6 hours from stated options.
3. Health and Human Performance: 2 hours from stated options.
4. Humanities: 16 hours from stated options, including GED 110 The World of Music, GED 220 Survey of Art, and at least two courses each in history (including HST 150 America and the World) and in literature (including LIT 231 Masterpieces of World Literature, Western or LIT 232 Masterpieces of World Literature, Non-Western).
5. Mathematics: This requirement is fulfilled within the major.
6. Natural Science: 6 hours from stated options.
7. Social Science: 6 hours from stated options, including PSY 150 General Psychology.
8. Globalization: 3 hours. This requirement is fulfilled by GEO 200 Cultural Geography and Global Relationships.
9. Education: 2 hours. This requirement is fulfilled by EDU 240 Perspectives in Education.

COURSE NUMBERING SYSTEM

Courses are designed for levels of experience and difficulty, and the course numbering system reflects this. 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.

- Course numbers ending in 0 (e.g., PSY 350) designate courses that are complete in one semester. They may be scheduled for either semester during the college year.

- Course numbers ending in 5 (e.g., COM 305) designate courses that may be pursued for several semesters under the same number, with all credits applicable, within stipulated limits.

- Course numbers ending in 1 and 2 (e.g., CHE 211, 212) designate courses offered throughout the year. 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” on page 20.
- 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 four 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 GED prefix refers to general education.
- Courses at the 500 to 700 levels are graduate courses.

MAJORS AND DEGREES

George Fox University confers these degrees: bachelor of arts, bachelor of science, master of arts in teaching, master of education, master of business administration, master of arts in organizational leadership (Boise), master of arts in Christian ministries, master of arts (theological studies), master of arts in counseling, master of arts in marriage and family therapy, master of divinity, doctor of ministry, doctor of education, and doctor of psychology. Included are 35 undergraduate majors and 12 graduate degrees. For more information on graduate programs, contact the Graduate Admission Office.

Admission to an Undergraduate Major

Admission to the University does not imply automatic admission to a major. Admission to a major may be required by application to the department sponsoring the major.

Though entry into George Fox University may be with a major as an objective, application and selection is to be accomplished after 45 credits have been earned, or during the second semester of the sophomore year.

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.

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. The 24/12/12 and the 24/24 options are at the discretion of the department. Of these hours, 30 must be upper division. The student must complete a contract form prepared in consultation with the advisor, the registrar, and the department chairperson of the largest component.

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.

Majors

Accounting (B.A.)
 Applied Behavioral Studies (B.A.)*
 Applied Science (Engineering) (B.S.)
 Art (B.A.)

Concentrations in:

Graphic Design
 Studio Arts

Biblical Studies (B.A.)

Biology (B.S.)

Business Administration (B.A.)

Concentrations in:

Finance
 International Business
 Management
 Marketing

Chemistry (B.S.)

Christian Ministries (B.A.)

Concentrations in:

Church Recreation
 Educational Ministry
 Missions

Youth Ministry

Cognitive Science (B.S.)

MAJORS AND DEGREES — MINORS

Communication Arts (B.A.)

Concentration in:

Theatre Arts

Computer and Information Science (B.S.)

Concentrations in:

Computer Science Information

Information Science

Economics (B.A.)

Elementary Education (B.S.)

Engineering (B.S.)

Concentrations in:

Electrical Engineering

Mechanical Engineering

Family and Consumer Sciences (B.S.)

Concentrations in:

Fashion Merchandising/Interior Design

Foods and Nutrition in Business

Cooperative 3-1 Degree Program with

the Fashion Institute of Design and Merchandising

Family and Consumer Sciences

Health and Human Performance (B.S.)

Concentrations in:

Athletic Training

Fitness Management

History (B.A.)

Interdisciplinary Studies (B.A. or B.S.)

International Studies (B.A.)

Concentration in:

Religion

Management and Business Information Systems (B.S.)*

Management and Organizational Leadership (B.A.)*

Management of Human Resources (B.A.)*

Mathematics (B.S.)

Media Communication (B.A.)

Music (B.A.)

Organizational Communication (B.A.)

Philosophy (B.A.)

Political Science (B.A.)

Psychology (B.A. or B.S.)

Religion (B.A.)

Social Work (B.A. or B.S.)

Sociology (B.A. or B.S.)

Spanish (B.A.)

Writing/Literature (B.A.)

*Majors offered through George Fox University's degree-completion program for working adults. (See graduate and professional studies catalog.)

Minors

Art

Biblical Studies

Biology

Business

Camping: Administrative

Camping: Programming

Chemistry

Christian Ministries: Church Recreation

Christian Ministries: Educational Ministry

Christian Ministries: Missions

Christian Ministries: Youth Ministry

Church Music

Coaching

Communication Arts

Communication Media and Broadcast

Computer and Information Science

Drama Teaching

Family and Consumer Sciences

Fashion Merchandising/Interior Design

Field Biology

Foods and Nutrition

French

Gerontology

Health

Health Teaching

History

International Studies

Leadership Studies

Marriage and Family

Mathematics

Mathematics Teaching

Music

Music Theatre
Peace Studies
Philosophy
Political Science
Psychology
Recreation
Religion and Philosophy
Romance Language
Social Work
Sociology
Spanish
Speech Teaching
Theatre
Writing/Literature

Supporting Programs

English as a Second Language
Greek
Japanese

Preprofessional Programs

Predental
Prelaw
Premedicine
Prenursing
Prepharmacy
Prephysical therapy
Preveterinary

UNDERGRADUATE PROGRAMS

*George Fox
University*

Order of Majors/Programs

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ART

ACCOUNTING

See Business and Economics, page 39.

APPLIED SCIENCE

See Engineering, page 45.

ART

ART MAJOR (B.A. Degree)

Studio Arts Concentration Requirements

Requirements for an art major with a concentration in studio arts consist of 42 semester hours, to include the following courses:

ART 101	Basic Design I
ART 102	Basic Design II
ART 111	Drawing I
ART 112	Drawing II
ART 381	Baroque and Rococo Art
ART 382	Twentieth Century Art
ART 385	Special Topics in Art History
ART 460	Art and Christ
ART 490	Senior Thesis Exhibit

(or ART 475 Field Experience, by petition)

Select 15 hours from the following (these 15 hours must include courses from three separate studio disciplines):

ART 201	Beginning Painting
ART 221	Beginning Sculpture
ART 230	Beginning Photography
ART 231	Beginning Printmaking
ART 240	Beginning Mixed Media
ART 241	Beginning Ceramics
ART 250	Introduction to Graphic Design
ART 265	Contemporary Art Seminar
ART 285	Selected Topics
ART 295	Special Study
ART 301	Intermediate Painting
ART 321	Intermediate Sculpture
ART 330	Intermediate Photography

ART 331	Intermediate Printmaking
ART 340	Intermediate Mixed Media
ART 341	Intermediate Ceramics
ART 350	Graphic Design 2: Typography
ART 401	Advanced Painting
ART 421	Advanced Sculpture
ART 431	Advanced Printmaking
ART 441	Advanced Ceramics
ART 495	Special Study
THE 125/325C	Theatre Laboratory
THE 255/455	Technical Theatre

Graphic Design Concentration Requirements

Requirements for an art major with a concentration in graphic design consist of 48 semester hours, to include the following courses:

ART 101	Basic Design I
ART 102	Basic Design II
ART 111	Drawing I
ART 112	Drawing II
ART 250	Introduction to Graphic Design
ART 350	Graphic Design 2: Typography
ART 360	Illustration
ART 382	Twentieth Century Art
ART 383	History of Visual Communications
ART 450	Graphic Design 3: Design Applications
ART 460	Art and Christ
ART 490	Senior Thesis

(or ART 475 Field Experience, by petition)

Select 12 hours from the following courses:

BUS 110	Introduction to Business
ART 201	Beginning Painting
ART 230	Beginning Photography
ART 231	Beginning Printmaking
CMB 250	Digital Multimedia Production
ART 301	Intermediate Painting
WRI 310	Professional Writing and Desktop Publishing
ART 330	Intermediate Photography
BUS 340	Marketing
BUS 420	Advertising and Promotion
BUS 450	Marketing Research
ART 451	Packaging and Graphic Signage

For art course descriptions, see page 64.

ART: INTERDISCIPLINARY MAJOR

(B.A. Degree)

Art: Interdisciplinary Major Requirements

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, 24 in art, and the remainder in another academic discipline. Creative options include art and communications, art and theatre, and art and business.

Required art courses for an art: interdisciplinary major are:

ART 101	Basic Design I
ART 111	Drawing I
ART 216 or ART 217	Art History Survey

For art course descriptions, see page 64.

ATHLETIC TRAINING

See Health and Human Performance, page 48.

BIBLICAL STUDIES

See Religion, page 53.

BIOLOGY

BIOLOGY MAJOR (B.S. Degree)

Biology Major Requirements

Requirements for the biology major consist of 34 semester hours in biology and 19 additional hours in chemistry and mathematics to include the following courses:

♦ Biology

BIO 101, 102 General Biology

BIO 350 Genetics

BIO 360 Ecology

BIO 491, 492 Senior Seminar

(BIO 384 Research Methods and BIO 496 Senior Thesis may each be substituted for one Senior Seminar.)

Plus an additional 16 hours of upper-division biology courses.

An upper-division botany course is highly recommended.

♦ Chemistry

CHE 211, 212 General Chemistry

CHE 325 Organic Chemistry

Plus one of the following:

CHE 326 Organic Chemistry

CHE 310 Analytical Chemistry

♦ Mathematics

MTH 190 Precalculus or above is required, with MTH 201, 202 Calculus I, II highly recommended.

♦ Physics

PHY 201, 202 General Physics or PHY 211, 212 General Physics with Calculus is also recommended.

The chemistry, mathematics, and physics courses 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.

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 (BIO 384) by the end of the spring semester of the junior year.

2. Take up to 4 hours of Biological Research (BIO 495) between the spring semester of their junior year and graduation, and Senior Thesis (BIO 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.

For biology course descriptions, see page 67.

BUSINESS AND ECONOMICS

ACCOUNTING MAJOR (B.A. Degree)

Accounting Major Requirements

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 Business and Economics Department, it requires completion of a general business core as well as specialized courses. Students are required to obtain a minimum grade of C- in all courses taken for the major.

♦ Business Core

BUS 110 Introduction to Business

BUS 240 Statistics for Business and Economics

BUS 300 Management

BUS 310 Financial Management

BUS 340 Marketing

BUS 360 Business Law

ECO 201 Principles of Microeconomics

ECO 202 Principles of Macroeconomics

ACC 271 Principles of Financial Accounting

ACC 272 Principles of Managerial Accounting

BUSINESS AND ECONOMICS

♦ Accounting Core

ACC 273	Accounting Information Systems
ACC 350	Taxation
ACC 371	Financial Accounting and Reporting I
ACC 372	Financial Accounting and Reporting II
ACC 471	Advanced Accounting
ACC 472	Auditing

Since January 2000, students are required to complete 150 semester hours of accredited education in order to take the national Certified Public Accountancy examination. An accounting major may plan to meet this requirement through several means: 1) An intensified undergraduate program combining AP credit, CLEP tests, taking full course loads each semester, and some summer courses; or 2) graduate with a four-year degree, seek employment, and complete the required hours through postgraduate courses, or 3) go on to a graduate program in law or business, taking the exam when the required hours have been attained. The broad educational experience provided by George Fox University should enable an accounting major the flexibility to design his or her own program.

For accounting course descriptions, see page 64.

BUSINESS ADMINISTRATION MAJOR

(B.A. Degree)

Business Administration Major Requirements

The requirements for a business administration major include the 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.

A student intending to major in business administration will submit an application to the major to the department in the semester of completion of the principles core (see below). For admission to the major, a minimum cumulative GPA of 2.75 is required, with at least a C- in each course in the principles core. Also, a minimum grade of C- must be obtained in all major courses for graduation.



Freshman Year

BUS 110 Introduction to Business (3 hours)

Principles Core (15 hours)

BUS 240	Statistics for Business and Economics
ACC 271	Principles of Financial Accounting
ACC 272	Principles of Managerial Accounting
ECO 201	Principles of Microeconomics
ECO 202	Principles of Macroeconomics

Functional Core (12 hours)

BUS 300	Management
BUS 340	Marketing
BUS 310	Financial Management
BUS 380	Information Systems

Concentration

Only one concentration will be listed on your transcript, and students with that concentration will be given priority in the senior-level courses.

BUS 490 Senior Capstone Course (4 hours)

Select **one** concentration from the following for a total of 12 hours:

♦ Finance

BUS 471	Investments, Financial Markets, and Institutions
BUS 472	Advanced Corporate Finance
BUS 490	Senior Capstone Course

(ACC 371, 372 Financial Accounting and Reporting are recommended.)

♦ International Business

ECO 460	International Trade and Finance
BUS 440	International Management
BUS 490	Senior Capstone Course

♦ Management

ECO 430	Managerial Economics
BUS 480	Organizational Behavior
BUS 490	Senior Capstone Course

♦ Marketing

BUS 420	Marketing Communication and Strategy
BUS 450	Marketing Research and Decision Making
BUS 490	Senior Capstone Course

For business administration course descriptions, see page 69.

ECONOMICS MAJOR (B.A. Degree)

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 serves the needs of students preparing 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.

Economics Major Requirements (41 hours required)

ECO 201	Principles of Microeconomics (3 hours)
ECO 202	Principles of Macroeconomics (3)
BUS 240	Statistics for Business & Economics (3)
ECO 340	Public Economics (3)
ECO 360	Global Political Economy (3)
ECO 430	Managerial Economics (4)
ECO 460	International Trade and Finance (4)

• 6 hours from the following options:

ECO 475	Field Experience
ECO 485	Selected Topics
ECO 495	Special Study

• 6 hours from supporting electives in business, economics, or accounting.

• 6 hours from the following outside electives:

GSC 485	History and Philosophy of Science
PHL 230	Ethics
PHL 260	Sociological Theory
PHL 380	History of Philosophy
PHL 382	History of Philosophy Seminar
MTH 201	Calculus I
MTH 202	Calculus II
MTH 301	Calculus III
MTH 320	Linear Algebra

For economics course descriptions, see page 76.

CHEMISTRY

CHEMISTRY MAJOR (B.S. Degree)

Chemistry Major Requirements

Requirements for the chemistry major consist of 36 semester hours in chemistry and 19 additional hours in mathematics and physics to include the following courses:

♦ Chemistry

CHE 111	General Chemistry
CHE 112	General Chemistry
CHE 310	Analytical Chemistry
CHE 325, 326	Organic Chemistry
CHE 390	Organic Synthesis and Analysis
CHE 401, 402	Physical Chemistry
CHE 410	Advanced Chemical Measurements

Plus an additional 3 hours of upper-division chemistry courses.

♦ Mathematics

MTH 201, 202, 301 Calculus I, II, III are required.

♦ Physics

PHY 201, 202 General Physics are required.

The mathematics and physics courses also fulfill up to 12 hours of the sciences requirement for general education.

A minimum grade of C- must be obtained in all chemistry courses for graduation.

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.

Requirements

Students who pursue the thesis option must:

1. Enroll in at least 1 hour of Chemical Research (CHE 495) 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.

COGNITIVE SCIENCE — COMMUNICATION ARTS

3. Prepare a poster and give an oral presentation of their research. In some cases, students may apply research conducted off campus to the CHE 495 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 CHE 495 requirement. For chemistry course descriptions, see page 70.

CHRISTIAN MINISTRIES

See Religion, page 53.

COGNITIVE SCIENCE

COGNITIVE SCIENCE MAJOR (B.S. Degree)

Cognitive Science is an interdisciplinary study of the mind. The major 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).

General Education Requirements

PHL 210	Introduction to Philosophy
MTH 201	Calculus I or MTH 260 Discrete Mathematics
BIO 221	Human Anatomy and Physiology
PSY 150	General Psychology
SOC 310	Cultural Anthropology

Cognitive Science Major Requirements

- 7 hours of overview courses, which include PSY 320 Introduction to Neuroscience, PSY 450 Systems of Psychology, and PSY 490 Senior Seminar
- 12 hours of methods courses
- 2 lab courses
- 12 hours of survey courses
- Optional research in field of emphasis

COMMUNICATION ARTS

COMMUNICATION ARTS MAJOR

(B.A. Degree)

Communication Arts Major Requirements

Communication arts features an interdisciplinary approach to communication that integrates the interests of speech communication, drama, journalism, and media with a common core of courses in communication and rhetorical theory.

Requirements for a communication arts major consist of 39 semester hours distributed as follows:

◆ Performance Core Courses

Either WRI 230	Introduction to Journalism
or WRI 310	Professional Writing/Desktop Publishing
COM 200	Persuasive Communication
COM 210	Interpersonal Communication
COM 324	Argumentation and Critical Thinking

◆ Theory Core Courses

COM 300	Theoretical Approaches to Communication
COM 400	Critical Approaches to Communication
COM 480	Senior Capstone

◆ Practicum

- 3 hours from COM 305 Professional Communication Activities, and/or COM 275/475 Field Experience (pass/no pass grading only).

◆ Electives

- 15 additional hours from communication arts, media communication, and/or up to 6 hours of writing courses (WRI 210, 230, 310, 330). Not more than 3 hours should be in practicum courses. (Students should choose their electives under the guidance of their advisors.)

For communication arts course descriptions, see page 72.

COMMUNICATION ARTS MAJOR WITH THEATRE CONCENTRATION

(B.A. Degree)

Theatre Concentration Requirements

A communication arts major with theatre concentration requires 36 semester hours (exclusive of general education courses) distributed as follows:

◆ Performance and Technical Core Courses

THE 120	Introduction to Acting
THE 160	Improvisational Theatre Workshop
THE 220	Oral Interpretation of Literature
THE 255/455	Technical Theatre
THE 320	Advanced Approaches to Acting

◆ Theory Core Courses

THE 240	Understanding Drama
LIT 385	Major Authors
COM 300	Theoretical Approaches to Communication
THE 340	Theatre as Ministry
COM 400	Critical Approaches to Communication

◆ Practicum

7 hours from:

THE 125/325	Theatre Laboratory
THE 165/365	George Fox University Players
THE 275/475	Field Experience.

◆ Recommended

CMB 320	Dramatic Scriptwriting
CMB 350	Editing Video
CMB 430	Producing and Directing Television

If possible, majors should satisfy their physical education requirement with HPA 107 Ballet and similar offerings.

For theatre course descriptions, see page 107.

MEDIA COMMUNICATION MAJOR

(B.A. Degree)

Media Communication Major Requirements

The media communication major combines the liberal arts emphasis of communication arts with hands-on experiences in video and digital media production. Extensive electives allow the student to design a program that fits individual needs or interests. The major consists of 36 required semester hours (exclusive of general education courses), distributed as follows:

◆ Theory Core Courses (9 hours)

COM 230	Mass Media and Popular Culture
COM 300	Theoretical Approaches to Communication
COM 330	Reviewing Film and Television

◆ Production Core (12 hours)

CMB 230	Introduction to Video Production
CMB 250	Digital Multimedia Production
Either CMB 260	Media Scriptwriting
or CMB 320	Dramatic Scriptwriting
Either CMB 350	Editing Video
or CMB 430	Producing and Directing Video

◆ Electives Package (15 hours)

Choose electives from the list below. Not more than 6 hours of practicum courses count toward major electives.

Recommended:

ART 250	Introduction to Graphic Design
ART 285	Photography

CMB alternatives not chosen in Core:

CMB 340	Audio Production and Broadcasting
CMB 355	Live Events Video Production
CMB 295	Broadcast News
CMB 475	Field Experience
CMB 495	Independent Study
COM 305	Professional Communication Activities
THE 255/455	Technical Theater

WRI 230	Introduction to Journalism
WRI 310	Professional Writing/Desktop Publishing

Other courses preapproved by advisor and department chair.

For media communication course descriptions, see page 94.

ORGANIZATIONAL COMMUNICATION MAJOR (B.A. Degree)

Organizational Communication Major Requirements

The organizational communication major combines communication courses that are particularly useful in organizational settings, with marketing and 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. Requirements for the organizational communication major consist of 42 semester hours distributed as follows:

◆ Communication Core Courses (18 hours)

Either COM 200	Persuasive Communication
or COM 324	Argumentation
COM 320	Introduction to Public Relations
COM 370	Organizational Communication
COM 380	Leadership Communication
Either COM 305/475	Professional Communication Activities/Field Experience
or BUS 475	Field Experience
Either WRI 310	Professional Writing
or CMB 260	Scriptwriting for Media

◆ Business Core (18 hours including the following)

BUS 110	Introduction to Business
BUS 300	Management
BUS 340	Marketing
BUS 420	Marketing and Communication Strategy
BUS 480	Organizational Behavior

◆ Electives (6 hours)

Select two courses from the following options.

BUS 440	International Management
CMB 250	Digital Media Production
COM 210	Interpersonal Communication

COMPUTER AND INFORMATION SCIENCE

COM 230	Mass Media and Popular Culture
COM 300	Communication Theory
COM 310	Conflict Resolution
COM 360	Nonverbal Communication
PSY 350	Social Psychology

For communication course descriptions, see page 72.

THEATRE: INTERDISCIPLINARY MAJOR (B.A. Degree)

Theatre: Interdisciplinary Major Requirements

An interdisciplinary major may be elected through application and approval of the theatre faculty. The student application must show how the proposed interdisciplinary major meets reasonable academic and vocational objectives. The interdisciplinary major consists of 48 semester hours, 24 in theatre arts and the remainder in another academic discipline. Creative options include theatre and music, theatre and religion, theatre and Christian ministries, theatre and communication media and broadcast, theatre and business (marketing/management), or theatre and sociology.

For theatre course descriptions, see page 107.

COMPUTER AND INFORMATION SCIENCE

COMPUTER AND INFORMATION SCIENCE MAJOR (B.S. Degree)

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.

Computer and Information Science Major Requirements

The computer and information science major requires 43 semester hours. Students may choose between concentrations in computer science and information science. The computer science concentration consists of 25 required semester hours and 18 elective semester hours of computer and information science courses. The information science concentration consists of 25 required semester hours and 12 elective semester hours of computer and information science courses along with 6 required semester hours of business courses.

♦ Computer Science Concentration

Required computer and information science courses:

CIS 201, 202	Introduction to Computer Science
CIS 310	Data Structures and File Processing
CIS 360	Computer Architecture and Assembly Language
CIS 420	Structures of Programming Languages
CIS 430	Analysis of Algorithms
CIS 460	Operating Systems
CIS 471	Senior System Development I
CIS 472	Senior System Development II

Choose 18 hours from the following:

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

Required supporting courses in mathematics:

MTH 201	Calculus I
MTH 260	Discrete Mathematics

♦ Information Science Concentration

Required computer and information science courses:

CIS 201, 202	Introduction to Computer Science
CIS 310	Data Structures and File Processing
CIS 314	Client-Server Systems
CIS 321	Software Engineering
CIS 350	Data Communication and Networks
CIS 460	Operating Systems
CIS 471	Senior System Development I
CIS 472	Senior System Development II

Choose 12 hours from the following:

CIS 330	Computer Graphics
CIS 340	Database Systems
CIS 370	Object-Oriented Programming
CIS 420	Structures of Programming Languages
CIS 430	Analysis of Algorithms
CIS 434	Parallel Computing
CIS 440	Artificial Intelligence
CIS 450	Network Administration

Required business courses:

BUS 110	Introduction to Business
BUS 300	Management

Required supporting course in mathematics:

MTH 260	Discrete Mathematics
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For computer and information science course descriptions, see page 74.

ECONOMICS

See Business and Economics, page 39.

EDUCATION

See Teacher Education, page 56.

ENGINEERING

APPLIED SCIENCE MAJOR (B.S. Degree from George Fox University)

For students interested in pursuing an engineering degree in a discipline other than electrical or mechanical engineering (e.g. chemical*, civil, computer, environmental, aerospace, etc.), George Fox University offers a dual-degree 3/2 program. 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: an applied science degree from George Fox University after their fourth year, and an engineering degree from the cooperating engineering school after their fifth year.

Applied Science Major Requirements

Requirements for an applied science major consist of 50 semester hours, to include the following:

EGR 151, 152	Engineering Principles I & II
EGR 250	Principles of Materials Science
EGE 250	Electric Circuit Analysis
EGM 210	Statics and Dynamics
EGM 311	Engineering Thermodynamics
MTH 310	Differential Equations
PHY 211, 212	General Physics with Calculus

Choose 3 hours of engineering electives from the following:

EGE 220	Digital Logic Design
EGE 311	Electronic Devices and Circuits
EGE 330	Signals and Electrical Systems
EGM 312	Applications of Engineering Thermodynamics
EGM 320	Mechanics of Materials
EGM 330	Fluid Mechanics

Choose 6 hours of math electives from the following:

MTH 300	Numerical Methods
MTH 320	Linear Algebra
MTH 331	Probability

- 12 additional hours in engineering courses are to be transferred back from the cooperating engineering school.
- 8 hours of CHE 211, 212 General Chemistry are required, which meet the natural science general education requirement.
- 11 hours of MTH 201, 202, 301 Calculus I, II, III are required, which meet the mathematics general education requirement.

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 CHE 325, 326 Organic Chemistry and CHE 401, 402 Physical Chemistry during their three years at George Fox University .

For engineering course descriptions, see page 78.

ENGINEERING MAJOR (B.S. Degree)

Engineering is the application of mathematical and scientific knowledge to provide for the technological needs of society. George Fox University offers an engineering degree with a concentration in 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, civil, or aerospace engineering, should see Applied Science.

Engineering Major Requirements

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

- 30 hours of core courses in general, electrical, and mechanical engineering
- 31 hours in the electrical or mechanical concentration
- 32 hours of mathematics and natural science, of which 18 hours fulfill the mathematics and natural science component of the general education requirements for engineering majors

ENGLISH AS A SECOND LANGUAGE

♦ Engineering Core

EGR 151, 152	Engineering Principles I & II
EGR 250	Principles of Materials Science
EGR 380	Robotics Control Systems
EGR 481, 482	Senior Design I & II
EGR 490	Senior Seminar
EGE 220	Digital Logic Design
EGE 250	Electric Circuit Analysis
EGM 210	Statics and Dynamics
EGM 311	Engineering Thermodynamics

♦ Electrical Engineering Concentration

EGE 300	C Programming with Applications
EGE 311	Electronic Devices and Circuits
EGE 312	Applications of Electronic Devices
EGE 330	Signals and Electrical Systems
EGE 350	Electrical Network Analysis
EGE 360	Electromagnetic Fields and Waves
EGE 420	Microprocessors

Choose 9 hours of electrical engineering electives from the following:

EGE 410	Integrated Circuit Design
EGE 430	Communication Systems
EGE 440	Electric Machines and Power Systems
EGE 460	Microwave Engineering and Applications

♦ Mechanical Engineering Concentration

EGM 300	Computational Methods
EGM 312	Applications of Engineering Thermodynamics
EGM 320	Mechanics of Materials
EGM 330	Fluid Mechanics
EGM 350	Machine Dynamics and Vibrations
EGM 380	Heat Transfer
EGM 400	Mechanical Engineering Design

Choose 9 hours of mechanical engineering electives from the following:

EGM 410	Materials and Processes in Manufacturing
EGM 430	Acoustics and Noise Control
EGM 450	Vehicle System Dynamics
EGM 470	Combustion, Emissions, and Air Pollution

♦ Mathematics and Natural Science

MTH 201, 202, 301	Calculus I, II, III
MTH 310	Differential Equations
CHE 211	General Chemistry
PHY 211, 212	General Physics with Calculus

Plus a math elective, selected from the following:

MTH 300	Numerical Methods
MTH 320	Linear Algebra
MTH 331	Probability

Plus a natural science elective, selected from the following:

BIO 100	Foundations of Biology
BIO 101	General Biology
BIO 221, 222	Human Anatomy and Physiology
CHE 212	General Chemistry

General education requirements for the engineering major are substantially different. For a complete list of required general education courses, consult the engineering advisor or the registrar.

For engineering course descriptions, see page 78.

ENGLISH AS A SECOND LANGUAGE

ENGLISH AS A SECOND LANGUAGE

The purpose of the English Language Institute 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.

English as a Second Language (ESL), taught in the English Language Institute 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, 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.

To prepare international students to enter into academic life at George Fox University as full and successful participants, ESL courses develop the students' general English proficiency, academic skills, and cultural, spiritual, and social awareness. Lower-level courses stress basic language skills, while 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 ESL learning activities.

At the highest level, students enroll for credit in one regular academic course together with ESL courses that are designed to help develop the language and academic skills necessary for success. ESL students may take up to 20 hours a semester, with a maximum of four credits of non-ESL course work.

Upon successful completion of the program, students are admitted to George Fox University and awarded up to 15 semester hours of credit toward their degree.

For English as a Second Language course descriptions, see page 81.

FAMILY AND CONSUMER SCIENCES

FAMILY AND CONSUMER SCIENCES MAJOR

(B.S. Degree)

Family and Consumer Sciences Major Requirements

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

◆ Foods and Nutrition in Business Concentration

Foods and nutrition in business is a multidisciplinary major 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 them with the knowledge base necessary to work in areas of fitness management, diet analysis, and consumer nutrition education. The third core of course work serves as the medium for the utilization of this knowledge base, preparing students for careers in industries requiring the skills of food specialists, including new product development, test kitchens, recipe development, and food product promotion.

In the general education program, CHE 151 General, Organic, and Biological Chemistry and ECO 201 Principles of Economics are required.

The following courses, totaling 44 semester hours, are required for a concentration in foods and nutrition in business:

FCS 211	Foods I
FCS 212	Foods II
FCS 250	Residential Technology
FCS 290	Meal Management
FCS 300	Nutrition
FCS 310	Food, Culture, and Society
FCS 344	Quantity Food Production and Management
FCS 350	Resource Management
FCS 360	Consumer Buying
FCS 430	Nutrition and the Life Cycle
FCS 475	Field Experience
FCS 490	Senior Seminar
BUS 110	Introduction to Business
BUS 300	Management
BUS 340	Marketing
ACC 271	Principles of Accounting

◆ Fashion Merchandising/ Interior Design Concentration

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, household technology, and interior design classes prepare students for positions as interior designers. Career opportunities include merchandise buying, design display, entrepreneurship, apparel design, textile design, fashion analysis, interior design, housing and home planning, kitchen and bath design, equipment promotion demonstration, energy conservation management in the home, furniture sales, and business management and administration.

A field experience (internship) in the Portland metropolitan area puts students in the workplace before graduation, giving them valuable business experience.

The following courses, totaling 44 semester hours, are required for a concentration in fashion merchandising and interior design:

FCS 120	Apparel Construction
FCS 220	Fashion and Society
FCS 230	Textiles Science
FCS 250	Residential Technology
FCS 320	Fashion Merchandising
FCS 330	Residential Architecture
FCS 350	Resource Management
FCS 351	Interior Design I
FCS 360	Consumer Buying
FCS 370	Pattern Drafting and Apparel Design
FCS 475	Field Experience
FCS 490	Senior Seminar
BUS 110	Introduction to Business

Either BUS 300 Management or BUS 340 Marketing

Take two of the following four classes:

FCS 352	Interior Design II
FCS 353	Interior CAD
FCS 378	Apparel CAD
FCS 460	Apparel Market Analysis

◆ 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 in Los Angeles, California. This cooperative program provides for students to attend George Fox University for three years, which allows the completion of all general education classes, all elective classes, and 14 hours in the fashion merchandising/interior design major.

HEALTH AND HUMAN PERFORMANCE

Students attend FIDM for either their junior or 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 development, merchandise management, 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, and a Professional Certification from FIDM.

♦ Family and Consumer Sciences Concentration

Family and consumer sciences are grounded in the sciences and humanities. At the core is concern for the biological, social, aesthetic, physical, economical, and psychological needs of each family member. Today's families must be able to manage relationships, services, goods, and resources.

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

The following courses, totaling 43 semester hours, are required for a concentration in family and consumer sciences:

FCS 120	Apparel Construction
FCS 211	Foods I
FCS 212	Foods II
FCS 220	Fashion and Society
FCS 230	Textiles Science
FCS 250	Residential Technology
FCS 280	Marriage and the Family
FCS 290	Meal Management
FCS 300	Nutrition
FCS 311	Human Development: Infancy to Adolescence
Either FCS 320	Fashion Merchandising
or FCS 370	Pattern Drafting and Apparel Design
FCS 330	Residential Architecture
FCS 350	Resource Management
FCS 351	Interior Design I
FCS 360	Consumer Buying
FCS 490	Senior Seminar

For family and consumer science course descriptions, see page 82.

HEALTH AND HUMAN PERFORMANCE

HEALTH AND HUMAN PERFORMANCE MAJOR (B.S. Degree)

General Education Requirements

All human performance majors are exempt from the general education human performance activity class requirement.

Health and Human Performance Major Requirements

♦ Athletic Training Concentration

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 75 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 concentration.

Admission to the program is based upon attainment of a cumulative GPA of 2.75 or better on all college-level courses. In addition, a cumulative high school GPA of 2.75 or better must have been attained. Other factors to be considered include a minimum of two written recommendations; meeting technical standards as described in the student athletic training handbook; exemplary social and moral behavior; 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 work as student athletic trainers within the student athletic training education program or declare athletic training as a concentration.

GRAPHIC DESIGN

See Art, page 38.

Transfer students must demonstrate the completion of a basic college level first aid/CPR course and the completion of at least 75 athletic training internship hours working under the guidance of an NATABOC 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 student athletic training handbook. Guidelines covering transfer credit are stated in the student athletic training handbook. Transfer credit generally will not be granted for HHP 375 Athletic Training Practicum.

Generally, continuation in the athletic training program is dependent upon maintaining a minimum 2.75 GPA within the athletic training concentration; 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 moral character 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 student athletic trainer handbook. 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 concentration students are required to obtain the hepatitis B immunization series in the first year to remain in the program.

Requirements for the athletic training concentration in health and human performance include the following courses:

- HEA 200 Lifestyle Management
- HEA 210 Drug Education
- HEA 230 First Aid and Safety
- HEA 300 Nutrition
- HPA 135 Weight Training
- HHP 228 Conditioning/Body Mechanics and Aerobics
- HHP 360 Organization and Administration of Health, Physical Education, and Athletic Training
- HHP 365 Current Issues in Athletic Training
- HHP 375 Athletic Training Practicum (4 semesters)
- HHP 384 Pharmacology
- HHP 390 Care and Prevention of Athletic Injuries
- HHP 394 Kinesiology
- HHP 400 Recognition of Athletic Injuries
- HHP 413 Therapeutic Exercise
- HHP 414 Therapeutic Modalities
- HHP 430 Exercise Physiology
- HHP 490 Senior Seminar
- BIO 221, 222 Human Anatomy and Physiology
- PSY 340 Statistical Procedures

Select one course from

- HHP 460 Physical Education for the Exceptional Student
- HHP 470 Motor Development and Motor Skill Learning
- HHP 480 Tests and Measurements in Physical Education
- HEA 240 Stress Management

In addition, PSY 150 General Psychology is required. This course may count for 3 hours of general education under Social Science.

◆ Fitness Management Concentration

Requirements for the fitness management concentration in health and human performance are 50-53 hours, of which 25 hours must be upper division.

The requirements are distributed as follows:

Take 38-40 hours from the following:

- HEA 230 First Aid and Safety
- HHP 200 History and Principles of Physical Education
- HHP 360 Organization and Administration of Health, Physical Education, and Athletic Training
- HHP 390 Care and Prevention of Athletic Injuries
- HHP 394 Kinesiology
- HHP 430 Exercise Physiology
- HHP 460 Physical Education for the Exceptional Student
- HHP 470 Motor Development and Motor Skill Learning
- HHP 475 Fitness Management Field Experience
- HHP 495 Special Study
- BIO 221 Human Anatomy and Physiology
- BIO 222 Human Anatomy and Physiology

Take 12-13 hours from the following:

- HEA 300 Nutrition
- HHP 223 Tumbling/Gymnastics
- Either HHP 227A Lifeguard Training or HHP 227B Water Safety Instruction
- HHP 228 Conditioning/Body Mechanics and Aerobics
- HHP 380 Recreational Leadership

Choose one course from the following:

- HEA 240 Stress Management
- HHP 400 Recognition of Athletic Injuries
- HHP 480 Tests and Measurements in Physical Education
- HHP 490 Senior Seminar

For health and human performance course descriptions, see pages 86 and 88.

HEALTH AND HUMAN PERFORMANCE: INTERDISCIPLINARY MAJOR (B.S. Degree)

Health and Human Performance: Interdisciplinary Major Requirements

◆ Human Performance with Religion or Educational Ministries Concentration

An interdisciplinary major may be elected through application and approval of the two departments. It consists of two 24-hour blocks, one in human performance, the other in religion or educational ministries. The student application must show how the proposed interdisciplinary major meets reasonable academic and vocational objectives.

Requirements for the human performance block include the following:

- HEA 200 Lifestyle Management
- HEA 230 First Aid and Safety
- HEA 240 Stress Management
- HHP 227A Lifeguard Training
- HHP 228 Conditioning/Body Mechanics and Aerobics

HISTORY — INTERNATIONAL STUDIES

HHP 229	Folk and Western Dance
HHP 333	Developmental Health and Physical Education
HHP 370	Camp Programming and Counseling
HHP 380	Recreational Leadership
HHP 440	Camp Administration

5 hours selected from any 200-or-above health education or human performance courses.

For health and human performance course descriptions, see pages 86 and 88.

HISTORY**HISTORY MAJOR (B.A. Degree)**

History Major Requirements

Requirements for a history major consist of 36 semester hours of history, with a minimum of 24 upper-division hours, to include the following courses:

HST 150	America and the World
HST 490	History Seminar and
HST 110	Western Civilization to 1648
or HST 120	Western Civilization from 1648

For history course descriptions, see page 86.

INTERNATIONAL STUDIES**INTERNATIONAL STUDIES MAJOR**

(B.A. Degree)

International Studies Major Requirements

International studies is an interdisciplinary major 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, sociology, and area studies. The major includes a strong international field work emphasis. Students taking this major as preparation for foreign missionary service are encouraged to minor in biblical studies, Christian ministries, or religion.

Requirements for a major in international studies consist of 38 semester hours, to include the following courses:

INS 310	Cultural Anthropology
Either INS 330	Introduction to the World Christian Movement
or REL 360	Cross-cultural Christian Outreach
INS 340	International Relations
INS 440	World Religions
Either INS 460	International Trade and Finance
or ECO 360	Global Political Economy
INS 490	International Studies Senior Seminar

The second year of a modern foreign language

8 hours of INS 475 Culture-Oriented Field Work

Two additional 3-hour courses from the following:

COM 300	Theoretical Approaches to Communication
COM 340	General and Cultural Linguistics
COM 350	Introduction to TESOL (Teaching English to Speakers of Other Languages)
ECO 360	Global Political Economy
ECO 460	International Trade and Finance
HST 331	England to 1688
HST 332	England Since 1688
HST 350	Latin America
HST 360	Modern Russia
HST 370	Far East
HST 421	Europe 1789-1890
HST 422	Europe 1890-Present
REL 360	Cross-Cultural Christian Outreach
REL 460	Issues in Contemporary Missions
LIT 231	Masterpieces of World Literature, Western
LIT 232	Masterpieces of World Literature, Non-Western
PSC 250	International Conflict and Peace
SOC 380	Ethnic Groups and Social Minorities
FRE 495	Individual Research or Field Work (French)
SPN 495	Individual Research or Field Work (Spanish)

♦ International Studies with Religion Concentration

International studies is an interdisciplinary major designed to prepare students for foreign missionary service or for other international vocations. Students taking this major as preparation for foreign missionary service are encouraged to take a minor in the Department of Religious Studies (in biblical studies, Christian ministries, or religion). This will also provide an appropriate base for graduate studies in missions and intercultural concerns. For details of curriculum and requirements, see the requirements for an international studies major. For international studies course descriptions, see page 91.

LEADERSHIP STUDIES

LEADERSHIP STUDIES MINOR

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. Prerequisites for entry into the program include sophomore standing and above and a 2.5 GPA.

The course of study and practice includes:

1. LDR 490 Leadership Seminar (four semesters, 1 hour per semester)
2. Either LDR 475 Leadership Experience or an approved alternative practicum.
3. SOC 300 Group Dynamics
4. One course taken from each of the following categories:

BUS 300	Management
PSC 410	Community Mediation
COM 324	Argumentation and Critical Thinking
PSY/SOC 350	Social Psychology
BUS 480	Organizational Behavior
COM 310	Conflict Resolution
PHL 230	Ethics
LIT 360	Values and Myths in Literature
REL 480	Spiritual Formation

Total program hours: 18-21.

For leadership studies course descriptions, see page 91.

MATHEMATICS

MATHEMATICS MAJOR

(B.S. Degree)

Mathematics Major Requirements

Requirements for a mathematics major consist of 37 semester hours, to include the following courses:

MTH 201, 202, 301	Calculus I, II, III
MTH 290	Mathematical Logic
MTH 320	Linear Algebra

MTH 331	Probability
MTH 490	Senior Seminar

Select 15 hours from the following:

MTH 260	Discrete Mathematics
MTH 310	Differential Equations
MTH 332	Mathematical Statistics
MTH 340	Elementary Number Theory
MTH 350	Modern Geometry
MTH 410	Algebraic Structures

Required supporting courses:

CIS 201	Introduction to Computer Science and one of
CIS 130	Web-based Programming
CIS 202	Introduction to Computer Science
CIS/MTH 300	Numerical Methods

For mathematics course descriptions, see page 93.

MEDIA COMMUNICATION

See Communication Arts, page 42.

MUSIC

MUSIC MAJOR (B.A. Degree)

Music Major Requirements

A total of 47 semester hours are required for a major in music. Core courses for the bachelor of arts degree in music include the following:

MUS 111, 112	Introduction to Music Literature
MUS 121, 122	Theory I
MUS 131, 132	Sight Singing and Ear Training
Either MUS 200	Basic Conducting
or MUS 460	Advanced Conducting, with permission
MUS 221, 222	Theory II
MUS 311, 312	Music History
MUS 320	Form and Analysis
MUS 491	Senior Seminar
MUS 492	Recital/Lecture
MUA 105/305	Applied Music (eight semesters)
MUA 115-365	Large Ensemble (Wind Ensemble, University Choir, Chehalem Symphony, or Festival Chorus is required in addition to other 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 except during supervised teaching. A solo recital (or achievement of upper-division standing and appropriate departmental recitals) is required of all music majors. The recital is given in the junior or senior year after the student has been granted upper-division standing and has passed a recital hearing given before the applied music faculty.

PEACE AND CONFLICT STUDIES

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 MUA 105/305 Applied Piano or MUS 135 Class Piano 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 piano, organ, strings, woodwinds, brass, percussion, and guitar. Private lessons carry one semester of credit except for students desiring a performance emphasis, for whom 2 hours of credit are given. Nonperformance majors may petition for 2 hours of credit with a recommendation by their applied music teacher. Music majors are required to enroll in applied music lessons each semester.

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.

For music course descriptions, see page 95.

MUSIC: INTERDISCIPLINARY MAJOR

(B.A. Degree)

Music: Interdisciplinary Major Requirements

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

Required music courses for an interdisciplinary major with religion include:

MUS 121, 122 Theory 1
 MUS 200 Basic Conducting
 MUS 220 Vocal Techniques
 MUS 340 Church Music (History and Administration)
 MUS 491, 492 Senior Seminar, Recital/Lecture

- A major ensemble (four semesters)
- Applied lessons (two semesters)
- Music electives

For music course descriptions, see page 95.

ORGANIZATIONAL COMMUNICATION

See Communication Arts, page 42.

PEACE AND CONFLICT STUDIES**PEACE STUDIES MINOR**

Students at George Fox University may earn a minor in peace studies by taking elective courses from the departments of history and political science, communication arts, and religious studies. For more information, students should see their advisor or the registrar.

♦ Program in Conflict Management

The Center for Peace Learning 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.

The course of study includes five components:

1. Either COM 200 Persuasive Communication, or COM 210 Interpersonal Communication
2. Either PSY/SOC 300 Group Dynamics, or PSY/CHM 380 Counseling, or BUS 480 Organizational Behavior
3. COM/PSC 310 Conflict Resolution
4. PSC 410 Community Mediation
5. Field experience in a conflict resolution or mediation program or agency, to be tailored to the individual student's needs (taken after PSC 410 or concurrently with it).

Each of the five elements equals 3 semester hours of credit, for 15 hours altogether. These may be credits applied also toward general education, major, or minor requirements. Successful students will receive a certificate of completion upon graduation.

PHILOSOPHY

See Religion, page 53.

POLITICAL SCIENCE

POLITICAL SCIENCE MAJOR (B.A. Degree)

Political Science Major Requirements

Requirements for a political science major consist of 36 semester hours from among the following courses, with a minimum of 24 upper-division hours.

Majors must take:

PSC 150	Introduction to Political Science
PSC 250	International Conflict and Peace
or PSC 110	Conflict Resolution
PSC 320	Constitutional Law: Issues of National Power
PSC 475	Field Experience (only 6 hours of credit may count toward major)
PSC 490	Senior Seminar

Majors must take at least five of the following courses:

PSC 190	American Government
PSC 220/420	War and Conscience in the United States
PSC 240	State and Local Government
PSC 250	International Conflict and Peace
PSC 260	Introduction to Law
PSC 270	Introduction to Political Philosophy
PSC 285/485	Selected Topics
PSC 310	Conflict Resolution
PSC 340	International Relations
PSC 350	Seminar on the First Amendment
PSC 360	Criminal Rights and Equal Protection
PSC 370	American Political Theory
PSC 390	Peace Research
PSC 410	Community Mediation
PSC 430	Women and Politics in America
PSC 440	Christianity and Politics in America
PSC 450	Campaigns and Elections

Majors may also take the following courses for political science credit:

HST 310	Herbert Hoover and His Times
INS 200	Cultural Geography
ECO 340	Public Economics
ECO 360	Global Political Economy
COM 380	Leadership Communication
LDR 490	Leadership Seminar
SOC 260	Social Theory
SOC 340/PSC 340	Statistical Procedures (highly recommended)
SWK 461	Social Policy I
SWK 462	Social Policy II

For political science course descriptions, see page 98.

PSYCHOLOGY

PSYCHOLOGY MAJOR (B.A. or B.S. Degree)

Psychology Major Requirements

The key objective of the psychology major is to acquaint students with the field of psychology and the implications of its principles for human behavior.

Requirements for a major in psychology consist of a minimum of 39 semester hours, including the following courses:

PSY 150	General Psychology
PSY 340	Statistical Procedures
PSY 390	Research Methods
PSY 400	Psychometrics
PSY 450	Systems of Psychology
PSY 490	Senior Seminar

Students also must choose two laboratory courses and 21 hours of psychology survey courses.

For psychology course descriptions, see page 100.

RELIGION

BIBLICAL STUDIES MAJOR (B.A. Degree)

Biblical Studies Major Requirements

Requirements for a biblical studies major consist of 40 semester hours (exclusive of GED 101, 102 Literature of the Bible), with 18 hours from upper-division courses (at least 6 at the 400 level) and distributed as follows:

- 20 hours in biblical studies (GRE 202 may be applied as biblical studies credit)
- 6 hours in Christian ministries
- 8 hours in religion (including REL 380 Christian Beliefs and either REL 401 or REL 402 Christianity in History)
- 6 hours in philosophy

A maximum of 2 hours may be counted through BIB 495 Special Study.

For biblical studies course descriptions, see page 66.

BIBLICAL STUDIES: INTERDISCIPLINARY MAJOR (B.A. Degree)

Biblical Studies: Interdisciplinary Major Requirements

An interdisciplinary major may be elected through application and approval of the department. It consists of two 24-hour blocks, one in biblical studies, the other in any other major field. The student application must show how the proposed interdisciplinary major meets reasonable academic and vocational objectives.

RELIGION

Requirements for the biblical studies block:

- 10 hours in biblical studies
- 8 hours in religion, including REL 380 Christian Beliefs
- 3 hours in philosophy
- CHM 360 Perspectives in Christian Education

For biblical studies course descriptions, see page 66.

CHRISTIAN MINISTRIES MAJOR

(B.A. Degree)

Christian Ministries Major Requirements

Requirements for a major in Christian ministries consist of 40 semester hours, with a 24-semester-hour core consisting of the following courses:

REL 380	Christian Beliefs
REL 401 or 402	Christianity in History
CHM 130	Christian Discipling
CHM 310	Theological Foundations of Christian Ministry
CHM 360	Perspectives in Christian Education

- 5 hours of biblical studies
- 3 hours in philosophy

An additional 16 semester hours in one of four possible areas of concentration: youth ministry, missions, church recreation, or educational ministry. (See listing below.) A four-semester sequence in Christian ministries called Shared Praxis provides community building, personal reflection, and practice in ministry. (See descriptions of CHM 391, 392, 491, 492 Shared Praxis I-IV.)

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

♦ Youth Ministry

CHM 330	Youth Leadership
CHM 381	Counseling I
Either HHP 380	Recreational Leadership
or CHM 370	Camp Programming and Counseling
PSY 311	Human Development: Infancy to Adolescence

♦ Missions

REL 330	Introduction to the World Christian Movement
REL 360	Cross-Cultural Christian Outreach
REL 440	World Religions
REL 460	Issues in Contemporary Missions
CHM 475	Cross-Cultural Field Experience

♦ Church Recreation

CHM 370	Camp Programming and Counseling
CHM 440	Camp Administration
CHM 475	Field Experience in Church Recreation
HEA 200	Lifestyle Management
HHP 380	Recreational Leadership

♦ Educational Ministry (Shared Praxis)

CHM 391	Shared Praxis I: Introduction to Educational Ministry
CHM 392	Shared Praxis II: The Christian Story and Vision
CHM 491	Shared Praxis III: Methods and Skills in Ministry
CHM 492	Shared Praxis IV: Supervised Field Experience

For Christian ministries course descriptions, see page 71.

**CHRISTIAN MINISTRIES;
INTERDISCIPLINARY MAJOR (B.A. Degree)**

Christian Ministries: Interdisciplinary Major Requirements

An interdisciplinary major may be elected through application and approval of the department. It consists of two 24-hour blocks, one in Christian ministries, the other in any other major field. For the Christian ministries block, the student will select one of four concentrations: youth ministry, missions, church recreation, or educational ministry (Shared Praxis). The student application must show how the proposed interdisciplinary major meets reasonable academic and vocational objectives.

Requirements for the Christian ministries block:

- 12 hours in Christian ministries, including CHM 130 Christian Discipling and CHM 360 Perspectives in Christian Education
- 6 hours in biblical studies
- 3 hours in philosophy
- REL 380 Christian Beliefs

Also offered is an interdisciplinary block in the area of camping ministries. Details are available from the Department of Religious Studies Office.

PHILOSOPHY MAJOR

(B.A. Degree)

Philosophy Major Requirements

Philosophy majors take 33 semester hours in addition to PHL 210 Introduction to Philosophy. 24 hours must be upper division. Six courses are required of all majors:

PHL 210	Introduction to Philosophy
PHL 230	Ethics
Either PHL 240	Logic
or COM 224	Argumentation and Critical Thinking
PHL 380	History of Philosophy Survey
PHL 382	History of Philosophy Seminar (Prerequisite must be fulfilled by a philosophy course other than Logic)
PHL 410	Contemporary Philosophers and Problems (Prerequisite must be fulfilled by a philosophy course other than Logic)

Majors select a specialization track from these options:

1. REL 380 Christian Beliefs and REL 440 World Religions
2. Two BIB courses numbered 300 or higher
3. BIB 390 Biblical Basis for Peacemaking and PSC 250 International Conflict and Peace or PSC 310 Conflict Resolution
4. PSY 330 Personality Theories and PSY 450 Systems of Psychology

At least four elective courses (12 hours) are selected from among:

COM 224	Argumentation and Critical Thinking
PHL 240	Logic

- PHL 260 Sociological Theory
- PHL 270 Aesthetics
- PHL 330 Philosophy of Religion
- LIT 360 Values Through Story and Myth
- PHL 485 Special Topics
- PHL 495 Special Study

For philosophy course descriptions, see page 98.

RELIGION MAJOR (B.A. Degree)

Religion Major Requirements

Requirements for a major in religion consist of 40 semester hours, including the following:

- 8 hours in biblical studies
- 6 hours in Christian ministries, including CHM 360 Perspectives in Christian Education
- 10 hours in religion, including REL 380 Christian Beliefs, and REL 401, 402 Christianity in History
- 6 hours in philosophy

A minimum of 18 hours shall be from upper-division courses. A limit of 3 hours of field experience can apply to the major.

For religion course descriptions, see page 102.

RELIGION: INTERDISCIPLINARY MAJOR (B.A. Degree)

An interdisciplinary major may be elected through application and approval of the department. It consists of two 24-hour blocks, one in religion, the other in any other major field. The student application must show how the proposed interdisciplinary major meets reasonable academic and vocational objectives.

Requirements for the religion block:

- 10 hours in religion, including REL 380 Christian Beliefs
- 8 hours in biblical studies
- 3 hours in philosophy
- CHM 360 Perspectives in Christian Education

SOCIAL WORK

SOCIAL WORK MAJOR (B.A. or B.S. Degree)

The social work program seeks 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. The current social work program was granted candidacy status with the Council on Social Work Education (CSWE) on February 15, 1997.

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 major must make formal application to the program. Each applicant shall:

1. Live in compliance with the University expectations & 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: PSY 150 General Psychology, SOC 150 Principles of Sociology, and SWK 180 Introduction to Social Welfare with a GPA of at least 2.70.
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 will not be held to the sophomore-year deadline but should see a social work advisor as soon as possible.
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.

Social Work Major Requirements (45 hours required)

- SWK 180 Introduction to Social Welfare
- SOC 200 Social Issues
- SOC 260 Social Theory
- SWK 330 Human Behavior in the Social Environment
- SOC 340 Statistical Procedures
- SOC 390 Research Seminar
- SWK 391 Social Work Practice I
- SWK 392 Social Work Practice II
- SWK 393 Social Work Practice III
- SWK 461 Social Policy I

SOCIOLOGY — TEACHER EDUCATION

SWK 462	Social Policy II
SWK 475	Field Experience/Practicum I
SWK 476	Field Experience/Practicum II
SWK 477	Field Experience/Practicum III
SWK 490	Senior Seminar

Required supporting courses (6 hours)

Either PSC 150 Introduction to Political Science,
PSC 190 American Government
or PSC 240 State & Local Government
and SWK 310 Lifespan Human Development.
SOC 150 Principles of Sociology, PSY 150 General

Psychology and BIO 100 Foundations of Biology are required as part of the general education program.

For social work course descriptions, see page 103.

SOCIOLOGY**SOCIOLOGY MAJOR**

(B.A. or B.S. Degree)

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, and (3) enhance awareness of relationships between personal events and the structure of societies. The program 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.

Sociology Major Requirements (39 hours required)

SOC 200	Social Issues
SOC 260	Social Theory
SOC 340	Statistical Procedures
SOC 390	Research Seminar
Either SOC 300	Group Dynamics
or SOC 350	Social Psychology
Either SOC 310	Cultural Anthropology
or SOC 380	Race, Ethnicity, Gender, and Class I
Either SOC 410	Juvenile Delinquency
or SOC 450	Aging in Society
SOC 275/475	Field Experience (six hours)

12 hours of sociology electives

For sociology course descriptions, see page 105.

SPANISH**SPANISH MAJOR (B.A. Degree)**

The Spanish major 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.

Spanish Major Requirements

Prerequisite for entry into the major: SPN 202 or equivalent.

Requirements for a major in Spanish consist of a minimum of 39 hours, to include the following courses:

SPN 301, 302	Third-Year Spanish
SPN 340	Spanish Culture and Civilization
SPN 350	Latin American Culture and Civilization
SPN 375	Field Experience: Study Abroad (taken concurrently with SPN 490)
SPN 410	Introduction to Spanish Literature
SPN 420	Introduction to Latin American Literature
SPN 480	Senior Capstone
SPN 490	Study Abroad (16 credits taken in an approved study abroad program in a Spanish-speaking country, taken concurrently with SPN 375)

For Spanish course descriptions, see page 106.

TEACHER EDUCATION**Policies and Procedures**

The teacher education program at George Fox University is designed to prepare teachers for the public and private schools through a curriculum that builds on a broad foundation in Christian liberal arts education through specialization in a particular field of knowledge to clinical studies in teaching and learning theory.

Teacher education and licensure in Oregon operate 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 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 Teacher Standards and Practices Commission to offer initial licensure for elementary education.

As of the 2001-02 academic year, the University no longer offers undergraduate degree programs for the preparation of secondary teachers. Students who wish to teach at the secondary level will complete a content major at the undergraduate level and prepare to enter a master of arts in teaching program (M.A.T.) to complete 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 M.A.T. program. (See George Fox University graduate catalog.)

Students enrolled at George Fox University before fall 2001 should consult the previous undergraduate catalog for requirements. Contact with the Education Department is necessary to ensure completion of the requirements.

Admission to Teacher Education

Students wishing to explore or prepare for entering a teaching career 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, EDU 240 Perspectives in Education, generally taken fall of the sophomore year by elementary education majors.

Admission to the program is based upon attainment of a cumulative GPA of 2.75 or better on all college-level courses, including transfer credits; passing scores on approved basic skills tests; acceptable faculty recommendations; exemplary social and moral behavior; and 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 program 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 students are subject to the policies contained in the Teacher Education Guidelines purchased when they take EDU 240 Perspectives in Education.

Transfer Students in 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 Education Department when the student is in his/her first professional course, usually during the first semester at the University.

A minimum of 30 semester hours must be taken at George Fox University for the elementary teaching major.

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

EDU 240	Perspectives in Education
EDU 311 or 312	Mathematics for Elementary Teachers
EDU 370	Integrated Methods: Music and Art
EDU 375	Student Teaching I
EDU 380	Integrated Methods: Science and Social Studies
EDU 401	Integrated Methods: Literature and Language
EDU 402	Integrated Methods: Literature and Literacy
EDU 475	Student Teaching II
EDU 490	Senior Seminar

A student transferring from a nonaccredited college will be granted conditional admission to the program until the student demonstrates ability by completing 12 semester hours in the student's first teaching field and/or professional education 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 director of undergraduate teacher education prior to enrollment in courses and meet requirements for admission to teacher education.

Admission to Student Teaching

Acceptance into the teacher education program does not guarantee assignment for student teaching.

Application for admission to student teaching is made by filing out required forms during the first week of 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 content area examinations; and a minimum of 15 semester hours completed in residence prior to student teaching.

WRITING/LITERATURE**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. Certain 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 candidates for teaching licenses have passed certain standardized tests. These are taken by students 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 that portion of the requirements. Waivers may be granted in writing by the director 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.

For teacher education course descriptions, see page 77.

ELEMENTARY EDUCATION MAJOR

(B.S. Degree)

The University offers a degree program for the preparation of elementary school teachers. Upon entering, students interested in majoring in elementary education should contact an elementary education advisor. In addition to general education courses and electives, the elementary education major requires the following courses:

Elementary Education Major Requirements

Requirements for a bachelor of science degree in elementary education include the following courses:

- EDU 240 Perspectives in Education
- EDU 311, 312 Mathematics for Elementary Teachers
- EDU 331 Psychological Foundations: Inclusion and Assessment

- EDU 332 Psychological Foundations: Learning Theory and Classroom Management
- EDU 333 Developmental Health and Physical Education
- EDU 370 Integrated Methods: Music and Art
- EDU 375 Student Teaching I
- EDU 380 Integrated Methods: Science and Social Studies
- EDU 401 Integrated Methods: Literature and Language
- EDU 402 Integrated Methods: Literature and Literacy
- EDU 475 Student Teaching II
- EDU 490 Senior Seminar
- GEO 200 Cultural Geography and Global Relationships
- HEA 310 School Health Program
- PSY 311 Human Development: Infancy to Adolescence
- ART 216 or 217 Art History Survey
- GED 110 World of Music

♦ **Elementary and Early Childhood Authorization**

All of the above plus

- EDU 321 Early Childhood Education
- EDU 322 Early Childhood Methods

♦ **Elementary and Middle Level Authorization**

All of the above plus

- EDU 351 Middle Level Education
- EDU 352 Middle Level Methods

For education course descriptions, see page 77.

THEATRE

See Communication Arts, page 42.

WRITING/LITERATURE**WRITING/LITERATURE MAJOR** (B.A. Degree)**Writing/Literature Major Requirements**

The department offers a writing/literature major that creatively combines both disciplines. Students whose major interest is in literature will take their electives from the literature curriculum. The major consists of 39 semester hours (not including WRI 110 Freshman Composition) distributed as follows:

♦ **Literature Core**

- LIT 350 Literary Criticism (3 hours)

Two of the following three courses (6 hours):

- LIT 240 Understanding Drama
- LIT 340 Poetry
- LIT 440 Modern Novel

Two of the following three sequences (12 hours):

LIT 231, 232 Masterpieces of World Literature

LIT 326, 327, 328 American Literature (two of the three courses)

LIT 376, 377, 378 British Literature (two of the three courses)

♦ Writing Core

WRI 200 Understanding Literature (3 hours)

WRI 230 Introduction to Journalism (3 hours)

One of the following three courses (3 hours):

WRI 330 Writing for Publication

WRI 360 Writing Fiction

WRI 370 Writing Poetry

♦ Electives

9 hours in literature or writing; may include CMB 320 Dramatic Scriptwriting.

For writing/literature course descriptions, see pages 91 and 107.

UNDERGRADUATE COURSES

*George Fox
University*

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ACCOUNTING — ART

Courses are listed alphabetically by program.

ACCOUNTING

Additional courses are listed under Business and Economics.

ACC 271 Principles of Financial Accounting

3 hours. Accounting as the language of business. An introductory overview course in 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.

ACC 272 Principles of Managerial Accounting

3 hours. This course is a continuation of Accounting 271. It emphasizes the uses of accounting data by management and will cover the following topics: the use of financial statements in analysis, budgeting concepts, cost-profit relationships, costing systems, time-value of money, and management decision making. Prerequisite: ACC 271 Principles of Financial Accounting.

ACC 273 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 and is to be taken concurrently with ACC 272 Principles of Managerial Accounting. Prerequisite: ACC 271 Principles of Financial Accounting.

ACC 275 Field Experience

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

ACC 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: ACC 271 Principles of Financial Accounting.

ACC 371, 372 Financial Accounting and Reporting

4 hours each semester. 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. Prerequisites: ACC 272 Principles of Managerial Accounting and ACC 273 Accounting Information Systems.

ACC 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: ACC 272 Principles of Managerial Accounting and ACC 273 Accounting Information Systems.

ACC 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: ACC 272 Principles of Managerial Accounting and ACC 273 Accounting Information Systems.

ACC 475 Field Experience

3-6 hours. Supervised experiences in businesses, nonprofit organizations, and public.

ACC 485 Selected Topics

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

ACC 495 Special Study

1-3 hours. Independent study of subjects outside regular offerings. By permission only.

ART

Survey of Art is offered under GED 220.

ART 101, 102 Basic Design

3 hours each semester. ART 101 is an introduction to materials, techniques, and theory related to two-dimensional design. ART 102 focuses on three-dimensional design. Hands-on projects are the primary learning mode.

ART 111, 112 Drawing

3 hours each semester. Art majors given preference. This course is a study of materials, methods, and techniques used for drawing with pencil, ink, charcoal, and other drawing media. ART 111 is a prerequisite for ART 112.

ART 201 Beginning Painting

3 hours. Introduces students to materials, methods, and techniques used in painting with acrylics or oils. Prerequisites: ART 111 Drawing, or instructor's permission.

ART 216 Art History Survey to 1600

2 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 1600.

ART 217 Art History Survey from 1600

2 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 1600 to the present.

ART 221 Beginning Sculpture

3 hours. Introduction to the materials, methods, and techniques used in sculpture.

ART 230 Beginning Photography

3 hours. Introduction to the materials, methods, and techniques used in photography.

ART 231 Beginning Printmaking

3 hours. An introduction to screen printmaking, and relief printmaking (woodcut, linocut, collagraph) techniques and methods.

ART 240 Beginning Mixed Media

3 hours. Introduction to the materials, methods, and techniques used for mixed media artwork.

ART 241 Beginning Ceramics

3 hours. Introduction to basic hand-building techniques and surface design.

ART 250 Introduction to Graphic Design

3 hours. Introduction to the materials, methods, and techniques used in graphic design.

ART 265 Contemporary Art Seminar

1 hour. Explores contemporary artists and art movements, as well as issues and concerns relative to careers in the art marketplace.

ART 285 Selected Topics

1-3 hours. ART 285 is a lecture/studio class that deals with areas of interest in art, such as watercolors, calligraphy, or special topics in art history.

ART 301 Intermediate Painting

3 hours. Provides an opportunity for further development of skills and for the introduction of more advanced techniques. Prerequisite: ART 201 Beginning Painting.

ART 321 Intermediate Sculpture

3 hours. Provides an opportunity for further development of skills and for the introduction of more advanced techniques. Prerequisite: ART 221 Beginning Sculpture.

ART 330 Intermediate Photography

3 hours. Provides an opportunity for further development of skills and for the introduction of more advanced techniques. Prerequisite: ART 230 Beginning Photography.

ART 331 Intermediate Printmaking

3 hours. An introduction to intaglio printmaking (etching, engraving, dry-point, aquatint) techniques and methods. Prerequisite: ART 231 Beginning Printmaking.

ART 340 Intermediate Mixed Media

3 hours. Provides an opportunity for further development of skills and for the introduction of more advanced techniques. Prerequisite: ART 240 Beginning Mixed Media.

ART 341 Intermediate Ceramics

3 hours. An introduction to basic wheel-throwing techniques and surface design. Prerequisite: ART 241 Beginning Ceramics.

ART 350 Graphic Design 2: Typography

3 hours. Provides an opportunity for further development of skills and an in-depth exploration of letter forms, typographic conventions, and production techniques. Prerequisite: ART 250 Introduction to Graphic Design.

ART 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. Prerequisite: ART 111 Drawing I or ART 112 Drawing II and ART 250 Introduction to Graphic Design.

ART 381 Baroque and Rococo Art

3 hours. Offered 2002-03. Art and its relationship to European culture from 1600 to 1800.

ART 382 Twentieth Century Art

3 hours. Offered 2001-02. Art and its relationship to Western culture of the twentieth century.

ART 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.

ART 385 Special Topics in Art History

3 hours. Offered 2002-03. 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.

ART 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. Prerequisite: ART 301 Intermediate Painting.

ART 421 Advanced Sculpture

3 hours. Focuses on the individual artistic development of students as they combine techniques and subject matter into a personal style of visual communication. Prerequisite: ART 321 Intermediate Sculpture.

BIBLICAL STUDIES**ART 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. Prerequisite: ART 331 Intermediate Printmaking.

ART 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. Prerequisite: ART 341 Intermediate Ceramics.

ART 450 Graphic Design 3: Design Applications

3 hours. Advanced problems 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. Prerequisite: ART 350 Graphic Design 2: Typography.

ART 451 Packaging Public Graphics, and 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. Prerequisite: ART 450 Graphic Design 3: Design Applications, or by permission.

ART 460 Art and Christ

3 hours. Offered 2001-02. A study of the relationship between art and Christianity in the contemporary world. Designed primarily for studio art majors. Prerequisites: ART 381 Baroque and Rococo Art, or ART 382 Twentieth Century Art, or ART 385 Special Topics in Art History, and junior or senior standing.

ART 475 Field Experience

3 hours. Students may petition to take ART 475 in place of ART 490. Field Experience provides on-site work experience at an approved business or institutional site. All majors electing ART 475 (in place of ART 490) will be required to prepare and present the results of their field experience in a format appropriate to their disciplines. Prerequisite: Art major with senior standing. By petition.

ART 490 Senior Thesis Exhibit

3 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. Majors may petition to substitute ART 475 for ART 490. Prerequisite: art major with senior standing or by permission.

ART 295/495 Special Study

1-3 hours. Designed to give two emphases for the serious art student: to allow for further individual study in a media 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.

BIBLICAL STUDIES

Survey courses are offered under GED 101, 102 Literature of the Old and New Testaments as part of the required first-year core.

BIB 240 Wisdom Literature

2 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. Prerequisite: GED 101 Literature of the Old Testament recommended.

BIB 250 The Psalms

2 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. Prerequisite: GED 101 Literature of the Old Testament recommended.

BIB 260 Life of Christ

2 hours. The Synoptic Gospels — Matthew, Mark, and Luke — form the foundation for this inquiry into the life and teaching of Jesus Christ. Prerequisite: GED 102 Literature of the New Testament recommended.

BIB 270 Writings of John

2 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. Prerequisite: GED 102 Literature of the New Testament recommended.

BIB 310 Old Testament History

3 hours. Offered 2001-02. 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: GED 101 Literature of the Old Testament.

BIB 330 The Prophetic Writings

4 hours. Offered 2002-03. 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: GED 101 Literature of the Old Testament.

BIB 340 Between the Testaments

3 hours. Offered 2001-02. 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. Prerequisite: GED 101, 102 Literature of the Old and New Testaments.

BIB 385 Selected Bible Topics

2 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. May be repeated for different topics. Prerequisite: GED 101 and 102 Literature of the Old and New Testaments, or permission.

BIB 390 Biblical Basis for Peacemaking

2 hours. Offered 2001-02. 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: GED 102 Literature of the New Testament.

BIB 411, 412 Acts and the Pauline Epistles

3 hours each semester. Offered 2002-03. 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. The spring semester studies Acts 15-28 plus the other Epistles of Paul. Prerequisite: GED 102 Literature of the New Testament.

BIB 480 General Epistles

2 hours. Offered 2002-03. 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: GED 102 Literature of the New Testament.

BIB 485 Selected Topics

2 hours. A seminar on a topic chosen by the professor. Open to upper-division majors and others by permission.

BIB 495 Special Study

1-3 hours. Individual research. Open to qualified students upon application.

BIOLOGY**BIO 100 Foundations of Biology**

3 hours. A course to fulfill the general education requirement that 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.

BIO 101, 102 General Biology

4 hours each semester. 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.

BIO 221, 222 Human Anatomy and Physiology

4 hours each semester. 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. Spring semester topics include cardiovascular, reproductive, endocrine, respiratory, urinary, and digestive systems. The course meets general education requirements and is designed for non-science majors. Three lectures and one laboratory per week. BIO 222 may be taken without BIO 221.

BIOLOGY**BIO 275/475 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. Permission of the instructor and chairperson of the department is required.

BIO 300 Evolution

2 hours. Offered 2001-02. 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, and biochemistry, and biogeography. The interface of evolution and Christianity are examined. Two lectures per week.

BIO 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. Prerequisites: BIO 101, 102 General Biology.

BIO 322 Comparative Vertebrate Anatomy

4 hours. Offered 2001-02. 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. Prerequisites: BIO 101, 102 General Biology.

BIO 330 Animal Physiology

4 hours. Investigation of physiological principles in animals, 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. Prerequisites: BIO 101, 102 General Biology.

BIO 340 Plant Physiology

4 hours. Offered 2001-02. 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. Prerequisites: BIO 101, 102 General Biology.

BIO 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. Prerequisites: BIO 101, 102 General Biology.

BIO 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. Fee required. Prerequisites: BIO 101, 102 General Biology.

BIO 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. Prerequisites: BIO 101, 102 General Biology, or permission of course instructor.

BIO 380 Ornithology

3 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. Fee required. Prerequisites: BIO 101, 102 General Biology.

BIO 384 Research Methods

1 hour. This course will introduce junior- and senior-level students to fundamental biological and chemical research techniques and will include topics of interest from both disciplines. Topics include records management, basic data analysis, experimental design, laboratory maintenance and safety, supply purchasing, chemical storage, and research ethics. Same as CHE 384. Substitutes for 1 hour of Senior Seminar. One lecture per week.

BIO 390 Systematic Botany

4 hours. Offered 2002-03. 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. Fee required. Prerequisites: BIO 101, 102 General Biology.

BIO 410 Molecular Biology

4 hours. Offered 2002-03. A course in contemporary molecular genetics which will include the organization, storage, retrieval, and transfer of genetic information at the molecular level. Viral, prokaryotic, and eukaryotic systems will be examined. Laboratory will include practical experience with many methodologies important to this sub-discipline of biology. Three lectures and one four-hour laboratory per week. Prerequisites: BIO 350 Genetics and CHE 325 Organic Chemistry.

BIO 420 Cell Biology

4 hours. This course includes the study of cell physiology, energetics, neurobiology, muscle biology, and cell-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. Prerequisites: BIO 101, 102 General Biology, and CHE 325 Organic Chemistry. CHE 340 Biochemistry is suggested.

BIO 430 Histology

4 hours. Offered 2002-03. 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. Prerequisites: BIO 101, 102 General Biology.

BIO 460 Invertebrate Zoology

4 hours. Offered 2001-02. 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. Fee required. Prerequisites: BIO 101, 102 General Biology.

BIO 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: BIO 101, 102 General Biology and permission of instructor.

BIO 491, 492 Senior Seminar

1 hour each semester. Discussion-based course covering topics chosen by the professor. For biology majors with senior standing or by permission.

BIO 495 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. For upper-division biology majors only. By permission.

BIO 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. Substitutes for BIO 491 or 492 Senior Seminar.

BUSINESS

Additional courses are listed under Accounting and Economics.

BUS 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 an examination of business as a field for stewardship.

BUS 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.

BUS 275 Field Experience

1-3 hours. An on-the-job experience or observation designed to acquaint the student with the business world.

BUS 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. Prerequisite: BUS 110 Introduction to Business.

BUS 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: ACC 272 Principles of Managerial Accounting and BUS 240 Statistics for Business and Economics.

BUS 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. Prerequisite: BUS 110 Introduction to Business.

BUS 380 Information Systems

3 hours. An introduction to systems and development concepts, information technology, 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: BUS 110 Introduction to Business.

BUS 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.

BUS 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. Prerequisite: Bus 340 Marketing.

BUS 440 International Management

4 hours. Managing and organizing global operations, with attention to both multinational corporations and non-profit 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. Prerequisite: Completion of the functional core in business.

CHEMISTRY**BUS 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: BUS 240 Statistics for Business and Economics, BUS 340 Marketing.

BUS 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. Prerequisite: BUS 310 Financial Management.

BUS 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. Prerequisite: BUS 310 Financial Management.

BUS 475 Field Experience

3-6 hours. Supervised experiences in businesses, nonprofit organizations, and public agencies.

BUS 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. Prerequisite: Completion of the functional core in business.

BUS 485 Selected Topics

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

BUS 490 Senior Capstone Course

4 hours. A final senior course concerned with the dynamics of strategic management. Specific focus will be on thinking strategically, managing change within the organizational culture, and developing leadership skills. The course is highly integrative in nature, incorporating many of the integral components of marketing, accounting, finance, economics, and management. Students will form consulting teams to work with a business to develop a comprehensive strategic plan. Prerequisite: completion of the functional core in business.

BUS 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. For upper-division business and economics majors only, by permission.

CHEMISTRY**CHE 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 nonscience majors. Two lectures and one laboratory period per week.

CHE 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 nonscience majors. It is recommended for students who need an introduction to chemistry prior to taking CHE 211 General Chemistry. Two lectures and one laboratory per week.

CHE 151, 152 General, Organic, and Biological Chemistry

4 hours each semester. 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.

CHE 211, 212 General Chemistry

4 hours each semester. This course covers fundamental chemical principles, reactions, and modern theories. Special emphasis is given to the role of chemistry in everyday life. Three lectures and one laboratory period per week. Prerequisite: high school chemistry, CHE 110 Chemistry and Our Environment, or math SAT score.

CHE 310 Analytical Chemistry

3 hours. An introduction to the principles and techniques of quantitative chemical analysis. Material includes gravimetric, volumetric, and complexometric analysis; neutralization, precipitation, and oxidation-reduction titrations; solubility; statistical methods of data analysis; and an introduction to instrumental methods. Two lectures and one three-hour laboratory per week. Prerequisites: CHE 211, 212 General Chemistry.

CHE 320 Advanced Inorganic Chemistry

3 hours. Offered 2001-02. 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 transition-metal chemistry. Three lectures per week. Prerequisites: CHE 211, 212 General Chemistry.

CHE 325, 326 Organic Chemistry

4 hours each semester. 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. Prerequisites: CHE 211, 212 General Chemistry.

CHE 340 Biochemistry

4 hours. An introduction to the chemistry of substances involved in life processes. The structures, reactions, and energy transformations of these compounds are considered. Three lectures and one three-hour laboratory per week. Prerequisites: CHE 325, 326 Organic Chemistry

CHE 384 Research Methods

1 hour. This course will introduce junior- and senior-level students to fundamental biological and chemical research techniques, and will include topics of interest from both disciplines. Topics include records management, basic data analysis, experimental design, laboratory maintenance and safety, supply purchasing, chemical storage, and research ethics. Identical to BIO 384. One lecture per week.

CHE 390 Organic Synthesis and Analysis

3 hours. Offered 2001-02. This course will emphasize advanced laboratory techniques for the synthesis, isolation, and identification of organic compounds. Spectroscopy will be emphasized for the analysis of compounds. Advanced separation techniques such as gas chromatography and vacuum distillation will be studied. One lecture and two three-hour laboratory periods per week. Prerequisites: CHE 325, 326 Organic Chemistry.

CHE 401, 402 Physical Chemistry

4 hours each semester. 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. Prerequisites: CHE 111, 112 General Chemistry, MTH 301 Calculus III, and either PHY 202 General Physics or PHY 212 General Physics with Calculus.

CHE 410 Advanced Chemical Measurements

3 hours. Offered 2002-03. Principles and techniques of modern instrumental physicochemical and analytical measurements. Literature search methods, scientific writing techniques, and seminar presentation techniques are covered. Two lectures and one three-hour laboratory per week.

CHE 420 Advanced Organic Chemistry

2 hours. Offered 2002-03. A study of organic reactions not normally covered in introductory courses. Synthesis and reaction mechanisms are emphasized. Prerequisites: CHE 325, 326 Organic Chemistry.

CHE 475 Field Experience

1-3 hours. Supervised experience with an off-campus industry or agency using applied chemistry. Prerequisite: consent of advisor.

CHE 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 standing.

CHE 495 Chemical Research

1-3 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. For upper-division chemistry majors only. By permission of individual faculty member. Prerequisite: CHE 384 Research Methods.

CHRISTIAN MINISTRIES**CHM130 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.

CHM 230 The Christian and the Outdoors

3 hours. Offered 2001-02. 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.

CHM 310 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.

CHM 320 Relational Bible Teaching

2 hours. Offered 2002-03. 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.

CHM 330 Youth Leadership

4 hours. A study of motivation, guidance, and method in reference to youth and youth ministries, aimed at developing leadership skills.

CHM 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.

COMMUNICATION ARTS

CHM 370 Camp Programming and Counseling

3 hours. Offered 2001-02. 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. (Identical to HHP 370.)

CHM 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. Open to sophomores and above. (Identical to PSY 381.) Prerequisite: PSY 150 General Psychology

CHM 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. Department interview required. Prerequisite: sophomore or junior standing and approval by department.

CHM 392 Shared Praxis II: The Christian Story and Vision

4 hours. A study of the faith life of the Christian community, expressed through Scripture, traditions, liturgies, theology, and church history, as it relates to Christian educational ministry. This is the second of four semesters. Prerequisite: CHM 391 Shared Praxis I: Introduction to Educational Ministry

CHM 420 Christian Preaching

2 hours. Building an understanding of the purposes, content, and structures of Christian preaching. To increase awareness and appreciation of this form of communication, the course includes the writing and delivery of an original sermon by each student.

CHM 440 Camp Administration

2 hours. Offered 2002-03. Designed to develop a basic understanding of programming, business, and leadership at an administrative level. A weekend camping trip is required. (Identical to HHP 440.) Prerequisite: CHM 370 Camp Programming and Counseling, or permission of the instructor.

CHM 475 Field Experience

1-5 hours. Supervised internship in areas of Christian ministry, with emphasis on application of methods learned. Open to upper-division students only, by application.

CHM 485 Selected Topics

2 hours. A seminar on a topic chosen by the professor. Open to upper-division majors and others by permission.

CHM 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. Prerequisite: CHM 392 Shared Praxis II: The Christian Story and Vision.

CHM 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: CHM 491 Shared Praxis III: Methods and Skills in Ministry.

CHM 495 Special Study

1-3 hours. Individual research. Open to qualified students upon application.

COMMUNICATION ARTS

COM 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.

COM 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, etc. Prerequisite: COM 100 Introduction to Communication, or equivalent.

COM 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: COM 100 Introduction to Communication, or equivalent.

COM 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.

COM 275/475 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 only.)

COM 285/485 Selected Topics

3 hours. A variety of topics may be offered that reflect the interests of faculty, visiting professors, and students.

COM 300 Theoretical Approaches to Communication

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 on the nature and progress of scientific inquiry in communication theory. Prerequisite: 6 hours of communication arts or media communication courses, including COM 100 Introduction to Communication.

COM 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. Prerequisite: Permission of the instructor. (Pass/no pass only.)

COM 310 Conflict Resolution

3 hours. Offered 2001-02. A study of communication principles found useful in managing conflict productively. Focus given to conflict occurring in institutional and organizational settings between individuals and groups, but attention also given to conflict in interpersonal, national, and international settings. (Identical to PSC 310.)

COM 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. Prerequisite: one course in business or communication arts.

COM 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: COM 100 Introduction to Communication, or permission of the instructor.

COM 330 Reviewing Film and Television

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. Prerequisite: one communication arts or communication/video production course.

COM 340 General and Cultural Linguistics

3 hours. Offered 2001-02. 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.

COM 350 Introduction to TESOL (Teaching English to Speakers of Other Languages)

3 hours. Offered 2001-02. 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.

COM 360 Nonverbal Communication

3 hours. Offered 2002-03. 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.

COM 370 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.

COM 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.

COM 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: COM 300 Theoretical Approaches to Communication, or permission of the instructor.

COMPUTER AND INFORMATION SCIENCE

COM 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.

COM 480 Senior Capstone: Ethical and Spiritual Dimensions of Communication

3 hours. Designed to integrate skills and concepts from communication coursework 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.

COM 495 Individual Research

1-3 hours. Individualized study related to the student's needs and interests. Open to exceptional students at the discretion of a faculty member.

COMPUTER AND INFORMATION SCIENCE

CIS 130 Web-Based Programming

3 hours. An introduction to Internet services including e-mail, FTP, telnet, listserves, newsgroups, World Wide Web, and HTML and Javascript programming. The emphasis of the course is placed on using all aspects of the Internet for productive means. The course is designed for students who want to prepare themselves for an informational age workplace.

CIS 201, 202 Introduction to Computer Science

3 hours each semester. 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 good and current style and structure. C++ is the programming language used. Prerequisite: High school algebra or equivalent.

CIS 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, and sequential logic circuits, and design methods. Laboratory experience includes TTL logic circuits and CAD tools. Three lectures and one laboratory per week. Prerequisite: MTH 190 Precalculus Mathematics, or equivalent. (Identical to EGR 220.)

CIS 300 Numerical Methods

3 hours. Offered 2001-02. 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. Prerequisites: MTH 202 Calculus II, and either CIS 201 Introduction to Computer Science or EGR 152 Engineering Principles II. (Identical to MTH 300.)

CIS 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: CIS 201, 202 Introduction to Computer Science.

CIS 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: CIS 202 Introduction to Computer Science II.

CIS 321 Software Engineering

3 hours. Offered 2001-02. 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: CIS 202 Introduction to Computer Science.

CIS 330 Computer Graphics

3 hours. Offered 2002-03. 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: CIS 310 Data Structures and File Processing, and MTH 190 Pre-Calculus Mathematics.

CIS 340 Database Systems

3 hours. Offered 2001-02. 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: CIS 202 Introduction to Computer Science.

CIS 350 Data Communications and Networks

3 hours. Offered 2002-03. An introduction to the field of communications among computers and computer systems, with an emphasis placed on LANS (Local Area Network Systems). Students will experience the installation of one or more network systems. Prerequisite: CIS 202 Introduction to Computer Science.

CIS 360 Computer Architecture and Assembly Language

3 hours. Offered 2002-03. 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: CIS 310 Data Structures and File Processing.

CIS 370 Object-Oriented Programming

3 hours. Offered 2002-03. 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: CIS 310 Data Structures and File Processing.

CIS 420 Structures of Programming Languages

3 hours. Offered 2002-03. 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: CIS 310 Data Structures and File Processing.

CIS 430 Analysis of Algorithms

3 hours. Offered 2001-02. 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: CIS 310 Data Structures and File Processing.

CIS 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: CIS 310 Data Structures and File Processing.

CIS 440 Artificial Intelligence

3 hours. Offered 2001-02. 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: CIS 310 Data Structures and File Processing.

CIS 450 Network Administration

3 hours. Offered 2002-03. This course introduces the student to system administration of a LAN. Topics covered include adding and removing users, monitor and controlling processes, add, remove, and manage groups, mount and unmount filesystems, monitor and troubleshoot a TCP/IP network, manage and control network and system security, and administration of network file systems. Prerequisite: CIS 350 Data Communications and Networks.

CIS 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: CIS 310 Data Structures and File Processing.

CIS 471 Senior System Development I

1 hour. In the senior system development sequence, students apply their knowledge and software engineering skills gained through coursework 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.

CIS 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: CIS 471 Senior System Development I.

CIS 475 Field Experience

1-3 hours. Supervised experience with an off-campus industry, business or institution, using computer science or data processing. For upper-division computer information science majors only.

CIS 480 Principles of Compiler Design

3 hours. Offered 2002-03. This course introduces the student to the basics of building a compiler using a multi-phase 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: CIS 310 Data Structures and File Processing. (CIS 420 Structures of Programming Languages preferred.)

ECONOMICS**CIS 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. For upper-division computer information science majors only.

CIS 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. For upper-division computer information science majors only, by permission.

CIS 495 Special Study

1-3 hours. Individual study in areas of special interest. For upper-division computer information science majors only, by permission.

ECONOMICS

Additional courses are listed under Accounting and Business.

ECO 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. ECO 201 and ECO 202 are complementary courses; however, either course may be taken first.

ECO 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. ECO 202 and ECO 201 are complementary courses; however, either course may be taken first.

ECO 340 Public Economics

3 hours. Offered 2002-03. 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: ECO 201 Principles of Microeconomics and ECO 202 Principles of Macroeconomics.

ECO 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: ECO 201 Principles of Microeconomics or ECO 202 Principles of Macroeconomics.

ECO 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: ECO 201 Principles of Microeconomics, ECO 202 Principles of Macroeconomics and BUS 240 Statistical Procedures in Business and Economics.

ECO 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. Prerequisites: ECO 201 Principles of Microeconomics and ECO 202 Principles of Macroeconomics.

ECO 475 Field Experience

3-6 hours. Supervised experiences in business, financial and research firms, and government agencies. For upper-division students only, by permission.

ECO 485 Selected Topics

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

ECO 495 Special Study

2-3 hours. Subject matter and credit arranged for the needs of the individual student. For upper-division students only, by permission.

EDUCATION

EDU 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. Sophomore or junior standing required. Required for elementary teaching majors. Encouraged for students considering the M.A.T. program.

EDU 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 field work per credit is required.

EDU 311, 312 Mathematics for Elementary Teachers

4 hours each. These courses include a study of the arithmetic structures of mathematics, informal geometry, and applications of elementary mathematics. The development and use of materials for the classroom, alternative teaching strategies for working with diversified students, and a study of mathematics curricula found in preschool grades also are explained. Field work may be required in both courses.

EDU 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.

EDU 322 Early Childhood Methods

4 hours. Developmentally appropriate methods and materials for facilitating literacy, language, math, and science learning for young children.

EDU 331 Psychological Foundations: Inclusion and Assessment

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. Survey of current assessment procedures.

EDU 332 Psychological Foundations: Learning Theory and Classroom Management

3 hours. Learning theories and the patterns of classroom application. Patterns of classroom management and organization.

EDU 333 Developmental Health and Physical Education

2 hours. Emphasis on teaching health concepts and development of movement mechanics, games of low organization, fundamental sport skills, stunts, tumbling, and self-testing activities at the preschool and elementary level. Includes lab. (Identical to HHP 333).

EDU 351 Middle Level Education

3 credit hours. Middle level distinctives regarding growth, development, and learning, with attention to implications for classroom management and organization.

EDU 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.

EDU 370 Integrated Methods: Music and Art

3 hours. Generic methods of teaching, including objectives, lesson plans, units of instruction, assessment of pupil learning as used in teaching. Specific applications in art and music for elementary teachers. Students write and assess a short work sample; 30 clock hours of field experience.

EDU 375 Student Teaching I

1 hour. A laboratory experience consisting of general and specific assigned tasks, managing and instructing pupils, and assisting teachers in classroom.

EDU 380 Integrated Methods: Science and Social Studies

4 hours. Advanced methods including development and teaching of a work sample, with additional attention to the specialized methods for science and social studies. Measurement, use of media, and curriculum development. EDU 375 Student Teaching I must be taken concurrently.

EDU 401 Integrated Methods: Literature and Language

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.

EDU 402 Integrated Methods: Literature and Literacy

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.

EDU 475 Student Teaching II

12 hours, elementary. A full-time laboratory experience in which principles and methods of teaching are applied under supervision of a classroom teacher and college supervisor.

EDU 285/485 Selected Topics

1-3 hours. A seminar dealing with various topics as announced that represent current faculty interests and competencies.

ENGINEERING

EDU 490 Senior Seminar

3 hours. Seminar discussion of current trends and issues in education, as well as job transition and related issues.

EDU 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: Consent of instructor.

ENGINEERING

◆ General Engineering

EGR 151, 152 Engineering Principles I & II

2 hours each semester. 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. Prerequisite: MTH 190 Pre-Calculus Mathematics, or equivalent.

EGR 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, and sequential logic circuits and design methods. Laboratory experience includes TTL logic circuits and CAD tools. Three lectures and one laboratory per week. Prerequisite: MTH 190 Pre-Calculus Mathematics, or equivalent. (Identical to CIS 220.)

EGR 250 Principles of Materials Science

3 hours. Offered 2001-02. 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. Prerequisites: CHE 211 General Chemistry, and PHY 212 General Physics with Calculus.

EGR 380 Robotics Control Systems

3 hours. Offered 2002-03. Introduction to automatic control systems in the context of robotics. Basic concepts in the organization and operation of microcomputer-controlled manipulators are covered. State variable and transfer function representations of feedback control systems; stability, sensitivity, and time response considerations; use of root-locus, Bode, and Nyquist methods for analysis and synthesis. Experiments include transducers, servo-mechanisms, kinematics, dynamics, trajectory planning, and the program

ming language of robots. Two lectures and one three-hour laboratory per week. Prerequisite: junior standing in the engineering major.

EGR 275/475 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.

EGR 481 Senior Design I

1 hour. Offered 2003-04. In the senior design sequence, students apply their knowledge and design skills gained through coursework 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. Prerequisite: senior standing in the engineering major.

EGR 482 Senior Design II

3 hours. Offered 2003-04. 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 are applied throughout the project. The design sequence culminates in the construction of the projects, oral presentations, and formal written reports. Prerequisite: EGR 481 Senior Design I.

EGR 485 Selected Topics

2-4 hours. Occasional special courses chosen to fit the interests and needs of engineering students and faculty.

EGR 490 Senior Seminar

1 hour. Offered 2003-04. A capstone course for the engineering major. Discussion of current trends and issues in the engineering profession. Features invited speakers from the industrial sector. Prerequisite: senior standing in the engineering major, or by permission.

◆ Electrical Engineering

EGE 220 Digital Logic Design

4 hours. Offered 2001-02. 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. Prerequisite: MTH 190 Precalculus Mathematics, or equivalent.

EGE 250 Electric Circuit Analysis

4 hours. Offered 2001-02. 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. Prerequisite: PHY 212 General Physics with Calculus. Corequisite: MTH 310 Differential Equations.

EGE 300 C Programming with Applications

2 hours. Offered 2002-03. Introduction to the C programming language as a means to perform low-level access and control of hardware with a high-level language. Real-time computing, custom software applications, portability issues, and introduction to pointers. Applications to engineering problems, including data acquisition and control systems. Prerequisites: EGE 220 Digital Logic Design, EGR 152 Engineering Principles II, and MTH 202 Calculus II.

EGE 311 Electronic Devices and Circuits

4 hours. Offered 2002-03. 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 multi-stage amplifiers: gain, biasing, and frequency response. Switching characteristics of transistors in saturation and cutoff. Three lectures and one laboratory per week. Prerequisites: EGE 220 Digital Logic Design, EGE 250 Electric Circuit Analysis, and EGR 250 Principles of Materials Science.

EGE 312 Applications of Electronic Devices

3 hours. Offered 2002-03. 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. Two lectures and one laboratory per week. Prerequisite: EGE 311 Electronic Devices and Circuits.

EGE 330 Signals and Electrical Systems

3 hours. Offered 2002-03. 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. Prerequisite: EGE 250 Electric Circuit Analysis.

EGE 350 Electrical Network Analysis

3 hours. Offered 2002-03. 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. Prerequisite: EGE 250 Electric Circuit Analysis.

EGE 360 Electromagnetic Fields and Waves

3 hours. Offered 2002-03. 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. Prerequisites: MTH 310 Differential Equations, and PHY 212 General Physics with Calculus.

EGE 410 Integrated Circuit Design

3 hours. Offered 2003-04. Comprehensive coverage of analog and digital integrated circuit (IC) design utilizing current technologies and methodologies. Fabrication, packaging, and circuit techniques; design for testability. Very-large-scale integration (VLSI) and application-specific IC (ASIC) system aspects. Mixed-mode ICs. Extensive use is made of computer-aided engineering (CAE) tools in the design projects. Prerequisite: EGE 312 Applications of Electronic Devices.

EGE 420 Microprocessors

4 hours. Offered 2002-03. Principles of hardware and software microcomputer interfacing. Microprocessor characteristics, memory peripheral devices, microcomputer structures, and I/O interface device control. Assembly language programming. Team design projects involve the construction and programming of a microprocessor-based system. Three lectures and one laboratory per week. Prerequisite: EGE 300 C Programming with Applications.

EGE 430 Communication Systems

3 hours. Offered 2003-04. 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. Prerequisite: EGE 330 Signals and Electrical Systems.

EGE 440 Electric Machines and Power Systems

3 hours. Offered 2003-04. 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 laboratory assignments to enhance course theory and to give hands-on experience. Prerequisites: EGE 350 Electrical Network Analysis, and EGE 360 Electromagnetic Fields and Waves.

EGE 460 Microwave Engineering and Applications

3 hours. Offered 2003-04. 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. Prerequisites: EGE 312 Applications of Electronic Devices, EGE 330 Signals and Electrical Systems, and EGE 360 Electromagnetic Fields and Waves.

ENGINEERING

♦ Mechanical Engineering

EGM 210 Statics and Dynamics

4 hours. Offered 2001-02. 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. Applications using ADAMS computer-aided dynamic analysis software are included. Prerequisites: MTH 202 Calculus II, and PHY 211 General Physics with Calculus.

EGM 300 Computational Methods

2 hours. Offered 2002-03. Solution of 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. Prerequisites: EGR 152 Engineering Principles II, and MTH 310 Differential Equations.

EGM 311 Engineering Thermodynamics

3 hours. Offered 2001-02. 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. Prerequisites: EGM 210 Statics and Dynamics, and PHY 212 General Physics with Calculus.

EGM 312 Applications of Engineering Thermodynamics

3 hours. Offered 2002-03. 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, non-reacting and chemically reacting flows. Applications to spark and compression ignition engines, gas and vapor turbines, refrigeration systems, heat exchangers, and psychrometrics. Laboratory exercises are included to enhance course theory and to provide hands-on experience with thermodynamic measurement apparatus and analysis techniques. Prerequisite: EGM 311 Engineering Thermodynamics.

EGM 320 Mechanics of Materials

3 hours. Offered 2002-03. 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. Prerequisites: EGM 210 Statics and Dynamics, and EGR 250 Principles of Material Science.

EGM 330 Fluid Mechanics

3 hours. Offered 2002-03. 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. Flow in open channels. Prerequisites: EGM 311 Engineering Thermodynamics, and MTH 310 Differential Equations.

EGM 350 Machine Dynamics and Vibrations

3 hours. Offered 2002-03. 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. Prerequisites: EGM 210 Statics and Dynamics, and MTH 310 Differential Equations. Corequisite: EGM 300 Computational Methods.

EGM 380 Heat Transfer

4 hours. Offered 2002-03. 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 laboratory per week. Prerequisites: EGM 300 Computational Methods, and EGM 330 Fluid Mechanics.

EGM 400 Mechanical Engineering Design

4 hours. Offered 2002-03. 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. Laboratory exercises are included to enhance course theory and to provide hands-on experience with the mechanical design and testing process. Prerequisites: EGM 320 Mechanics of Materials, EGM 330 Fluid Mechanics, and EGM 350 Machine Dynamics and Vibrations.

EGM 410 Materials and Processes in Manufacturing

3 hours. Offered 2003-04. 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. Prerequisites: EGM 380 Heat Transfer, and EGM 400 Mechanical Engineering Design.

EGM 430 Acoustics and Noise Control

3 hours. Offered 2003-04. 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: EGM 330 Fluid Mechanics, and EGM 350 Machine Dynamics and Vibrations.

EGM 450 Vehicle Systems Dynamics

3 hours. Offered 2003-04. 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: EGM 400 Mechanical Engineering Design.

EGM 470 Combustion, Emissions, and Air Pollution

3 hours. Offered 2003-04. The fundamentals of combustion science and engineering applications of combustion theory based on the background of chemistry, thermodynamics, fluid mechanics, and heat transfer. Stoichiometry, flame temperature, chemical kinetics, combustion of pre-mixed gases, diffusion flames, single droplet combustion. Combustion of two-phase flow systems and ignition. Introduction to the quantitative analysis of products of combustion from the perspective of emissions and air pollution. Effects and sources of air pollution, models for predicting quantity, and dispersion of atmospheric pollutants. General control strategies for particulates, vapors, and product gases such as the oxides of sulfur and nitrogen. Prerequisites: EGM 312 Applications of Thermodynamics, and EGM 380 Heat Transfer.

ENGLISH AS A SECOND LANGUAGE**ESL 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.

♦ Level A (Beginning and Low Intermediate)

ESL 055 Reading

4 hours. A course designed to teach basic reading skills and vocabulary.

ESL 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.

ESL 065 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.

ESL 070 ESL Freshman Experience

2 hours. Offered fall semester. 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.

ESL 075 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.

♦ Level B (Intermediate)

ESL 125 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.

ESL 135 Speech, Listening and Notetaking

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.

ESL 145 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 for

FAMILY AND CONSUMER SCIENCES

mat are addressed during the editing process. Another goal is to improve keyboarding and word processing skills.

ESL 170 ESL Freshman Experience

2 hours. Offered fall semester. 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.

ESL 185 Introduction to Christianity

2 hours. Offered spring semester. 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)

ESL 225 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.

ESL 235 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.

ESL 245 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.

ESL 255 Adjunct Listening

3 hours. This course cultivates skills of listening and notetaking 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.

◆ Transition

ESL 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 or between 173 and 213 on the computer-based TOEFL meet individually with a faculty member to improve their ability to write in English and to develop more effective study strategies.

◆ Regular Course

COM 350 Introduction to TESOL (Teaching English to Speakers of Other Languages)

3 hours. Offered 2001-02. 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.

ESL 285/485 Selected Topics

3 hours. Occasional special courses chosen to fit the needs and interests of students interested in teaching English as a second language.

FAMILY AND CONSUMER SCIENCES

FCS 120 Apparel Construction

3 hours. Applies basic construction and fitting techniques to produce high-quality garments, properly fitted, and aesthetically pleasing. The principles of fabric selection, the use and altering of commercial patterns, and the use of the sewing machine, serger and other sewing equipment are emphasized. Laboratory class. Open to all students.

FCS 211, 212 Foods I, II

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, with spring semester focusing on the properties of grain (baked goods) and dairy products. Laboratory experience encourages food product experimentation and the development of culinary skills.

FCS 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.

FCS 230 Textiles Science

3 hours. Offered 2001-02. Surveys the sources and properties of natural and manmade polymers; yarn and fabric construction; colorations 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.

FCS 250 Residential Technology

2 hours. Offered 2002-03. Survey of technological systems and residential appliances within a home. Includes drafting procedures for the planning of bathrooms and kitchens with emphasis on space allocation.

FCS 275 Field Experience

1-4 hours. Field experience with an off-campus industry, business or institution where the student is observing and working with a professional. Permission of instructor required.

FCS 280 Marriage and the Family

3 hours. A focus on relationships and issues in marriage and family development covering in Christian perspective such topics as families in cultural context, American family development, the married pair, parenting, the empty nest, widowhood, and singleness. (Identical to SOC 280 and HEA 280.)

FCS 285/485 Special Topics

1-4 hours. Topics reflecting the special interest of students and faculty.

FCS 290 Meal Management

2 hours. Offered 2002-03. 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. Prerequisite: FCS 211, 212 Foods I, II, or instructor's permission.

FCS 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 HEA 300.)

FCS 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.

FCS 311 Human Development: Infancy to Adolescence

3 hours. A study of physical, intellectual, personality, social, and moral development from the prenatal period to adolescence. (Identical to PSY 311 and SWK 311.) Prerequisite: PSY 150 General Psychology.

FCS 320 Fashion Merchandising

3 hours. Offered 2001-02. 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.

FCS 330 Residential Architecture

2 hours. Offered 2001-02. A study of housing trends and the psychological, social, and economic needs of various family types. Site selection, planning, and construction of housing emphasized. Computer-assisted design included.

FCS 344 Quantity Food Production and Management

3 hours. Offered 2001-02. 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 control, and nutritional value. Includes a laboratory experience focusing on quality control, finances, and computer assistance. Prerequisite: FCS 211 Foods I.

FCS 350 Resource Management

2 hours. Offered 2002-03. 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.

FCS 351 Interior Design I

3 hours. Application of the elements of art and principles of design in planning and selecting materials and furnishings for the living environment. Emphasis on developing plans using available resources to fulfill the goals of the family while providing a functional and aesthetically pleasing interior design. Includes a section on historical furniture.

FCS 352 Interior Design II

2 hours. Offered 2002-03. Emphasis on the knowledge and skills needed for a career in interior design merchandising, both private and professional. Requirements will include developing a portfolio for a client and computer-assisted design and drafting (CADD). Prerequisite: FCS 351 Interior Design I, or instructor's permission.

FCS 353 Interior CAD

3 hours. Offered 2001-02. An introduction to computer-aided-design applications and drafting techniques used in interior design. Emphasis placed on the application of design principles. Prerequisite: FCS 351 Interior Design I, or instructor's permission.

FCS 360 Consumer Buying

3 hours. Offered 2002-03. Analysis of the consumer 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.

FCS 370 Pattern Drafting and Apparel Design

3 hours. Offered 2001-02. Studies flat-pattern variations as they relate to garment design. Each student will produce a sloper and an original pattern through flat-pattern techniques, construct an original design in half scale, and design and construct in full scale. Advanced fitting principles will be covered. Prerequisite: FCS 120 Apparel Construction.

FCS 378 Apparel CAD

3 hours. Offered 2002-03. Emphasis on clothing design by use of draping techniques. Course includes introductory unit focusing on computer-aided-design processes. Each student will design a prototype garment using techniques presented in the course. Prerequisite: FCS 120 Apparel Construction.

FCS 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 19th century.

FRENCH — GENERAL EDUCATION

FCS 460 Apparel Market Analysis

3 hours. Offered 2002-03. 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.

FCS 475 Field Experience

1-4 hours. Field experience with an off-campus industry, business, or institution where the student is observing and working with a professional. Permission of instructor required.

FCS 490 Senior Seminar

3 hours. A capstone course for those anticipating entrance into family and consumer sciences-related careers. Emphasis placed on careers in family and consumer sciences, planning and giving demonstrations, and marketplace readiness skills. Prerequisite: senior standing.

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.

FRE 101, 102 First-Year French

3 hours each semester. 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.

FRE 201, 202 Second-Year French

3 hours each semester. A systematic approach to the study of French with extensive practice in speaking and writing. Prerequisite: FRE 102 First-Year French or placement by exam.

FRE 275/475 Field Experience

1-10 hours. Supervised experience in a situation demanding extensive use of French. Admission and credit hours determined by instructor.

FRE 285/485 Selected Topics

2-4 hours. Occasional special courses chosen to fit the needs and interests of students and faculty.

FRE 301, 302 Third-Year French

3 hours each semester. Offered 2001-02. A thorough review of French to develop advanced proficiency in the language. Prerequisite: FRE 202 Second-Year French or placement by exam.

FRE 490 Study Abroad

12-16 hours. A one-semester overseas experience. Students take university courses while living abroad in France. Application, completion of FRE 302, and junior standing or above required. All programs of study subject to the approval of the French faculty and the director of overseas study.

FRE 495 Individual Research or Field Work

1-4 hours. Individual study under the guidance of a faculty member, as determined by student needs and faculty availability. Students must have permission of the faculty member to enroll.

GENERAL EDUCATION

The following list includes both required general education courses and interdisciplinary elective courses that serve particular purposes.

GED 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.

GED 101, 102 Literature of the Old and New Testaments

3 hours each semester. Using selected books and portions, the Old and New Testaments will be studied with attention given to historic contexts, major religious themes, and literary forms of the Bible. Because these courses provide a foundation of Bible familiarity and reflective use, they are required of all freshmen and first-year students. (A 3-hour lower-division Bible elective may substitute for either course given a superior placement examination.)

GED 110 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.

GED 130 Freshman Seminar

1 hour. Members of the entire entering freshman class select a small seminar-style topical course for the first five weeks of fall 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.

GED 271, 272 Sophomore Honors Colloquium**GED 371, 372 Junior Honors Colloquium**

1 hour each semester. This is one combined course, with students registering at their current class level. Discussion of literary, philosophical, theological, and/or public themes from selected books, together with appropriate retreats, activities, or excursions, occasionally enriched by visiting resource people. Prerequisite: Consent of instructors and the Intensified Studies Committee.

GED 214 Designing Your Career Plan; Discovering Your Career Self

1 hour. This course, for freshmen and sophomores, will cover learning about one self, 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.

GED 216 Managing Your Career Plan; Connecting with the Workplace

1 hour. This course, for sophomores and juniors, 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.

GED 218 Implementing Your Career Plan; Finding After-College Employment

1 hour. This course, for juniors and seniors, will focus on honing skills needed to find employment; contemporary résumé 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.

GED 375 Cultural Experience

Maximum 12 hours. Supervised experience in a cultural setting that contributes to the educational goals of the student. This may include, but is not limited to, Juniors Abroad study tours. Prerequisite: consent of advisor and the academic dean.

GENERAL SCIENCE**GSC 120 Foundations of Earth Science**

3 hours. An introduction to modern concepts of geology, meteorology, and astronomy. Topics include plate tectonics, earthquakes, volcanoes, mountain building, landslides, dinosaurs, hurricanes, tornadoes, floods, oceans and coastlines, planets and stars. Two lectures and one laboratory per week.

GSC 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 daylong field trips.

GSC 285/485 Selected Topics

3 hours. A variety of topics may be offered to meet the special needs and interests of students, faculty or visiting professors.

GEOGRAPHY**GEO 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 INS 200.)

GERMAN**GER 101, 102 First-Year German**

3 hours each semester. 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.

GER 201, 202 Second-Year German

3 hours each semester. 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: GER 102 First-Year German, or two years of high school German, or by testing.

GREEK**GRE 201, 202 Hellenistic Greek I**

4 hours each semester. Offered 2001-02. 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.

GRE 301, 302 Hellenistic Greek II

4 hours each semester. Offered 2002-03. 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: GRE 202 Hellenistic Greek I.

HEALTH EDUCATION — HISTORY

HEALTH EDUCATION

Additional courses are listed under Human Performance.

HEA 200 Lifestyle Management

3 hours. Offered 2001-02. The basic principles of healthful living, with emphasis on the prevention of health problems, effects of lifestyle on health, and the individual's responsibility in determining his or her own health status.

HEA 210 Drug Education

2 hours. Problems 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.

HEA 230 First Aid and Safety

1 hour. Instruction in first aid and safety using the Sport Safety Training curriculum of American Red Cross, and leading to American Red Cross certification in first aid and CPR. Additional course information will meet first aid competencies outlined by the National Athletic Trainers' Association.

HEA 240 Stress Management

3 hours. Offered 2001-02. A study of causes, symptoms, and results of stress. Introduces practical techniques to alleviate stress, promote relaxation, and encourage a healthy lifestyle.

HEA 280 Marriage and the Family

3 hours. A focus on relationships and issues in marriage and family development, covering in Christian perspective such topics as families in cultural context, American family development, the married pair, parenting, the empty nest, widowhood, and singleness. (Identical to SOC 280 and FCS 280.)

HEA 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 FCS 300.)

HEA 310 School Health Program

3 hours. Purposes and procedures of health services and instruction in the schools. Special emphasis on construction of health teaching units and selection of methods and materials.

HEA 320 Contemporary Health Issues

3 hours. Offered 2002-03. 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.

HEA 285/485 Selected Topics

1-3 hours. A seminar dealing with various topics as announced that represent current faculty interests and competencies.

HEBREW**HBW 201, 202 Introduction to Biblical Hebrew**

4 hours each semester. The language of ancient Israel as preserved in the Hebrew Bible is encountered inductively through the study of the text of Esther. Mastery of basic vocabulary, grammar, and syntax of narrative Hebrew prose is the goal of this two-semester sequence. The second semester may be applied as biblical studies major credit.

HISTORY**HST 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.

HST 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.

HST 150 America and the World

3 hours. A study of the United States since 1756. Emphasis is on the development of democracy, the capitalist economic system, and the rise of the United States as a world power.

HST 220/420 War and Conscience in the United States

3 hours. Offered 2001-02. 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 Indians, the world wars, Vietnam, 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 PSC 220/420.)

HST 310 Herbert Hoover and His Times

3 hours. Offered 2001-02. A seminar associated with the biennial Herbert Hoover Symposia at George Fox University, offering opportunities for topical reading and research.

HST 320 History of the Middle East

3 hours. Offered 2001-02. 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.

HST 330 The American West

3 hours. Offered 2002-03. 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.

HST 331 England to 1688

3 hours. Offered 2001-02. The growth of the English nation from Roman times to the Glorious Revolution, with special attention given to constitutional and religious development.

HST 332 England Since 1688

3 hours. Offered 2001-02. England in the modern age, emphasizing the response of its institutions to its rapidly changing role in the European and world communities.

HST 350 Latin America

3 hours. Offered 2002-03. Latin American countries from colonial times to the present, with an emphasis on the conditions that have led to the crises of recent years.

HST 360 Modern Russia

3 hours. A study of 20th-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.

HST 370 Far East

3 hours. Offered 2001-02. Political and cultural developments of China and Japan.

HST 380 The African-American Experience in the United States

3 hours. A study of Africans in an America dominated by those of European descent.

HST 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 PSC 390.)

HST 401 Christianity in History

3 hours. Offered 2001-02. 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 REL 401.)

HST 402 Christianity in History

3 hours. Offered 2001-02. 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 REL 402.)

HST 410 Classical Greece and Rome

3 hours. Offered 2002-03. 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.

HST 419 Medieval Europe

3 hours. Offered 2002-03. 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.

HST 421 Europe from the Age of Enlightenment to 1890

3 hours. Offered 2001-02. European political, economic, cultural, and intellectual developments from the late 17th century through 1890.

HST 422 Europe 1890-Present

3 hours. Offered 2001-02. Europe in the 20th century, with emphasis on the upheavals of the two world wars and the status of the European states today.

HST 430 The Vietnam Experience

3 hours. Offered 2002-03. A study of the culture and counterculture of the 1960s and early 1970s, particularly as impacted by the war in Vietnam; a study of patriotism and protest.

HST 440 History of Africa

3 hours. A study of the history and culture of Africa from the 15th century to the present, with emphasis on the last 200 years. Native cultures are examined, as is the role of European and Middle Eastern imperialism in the shaping of modern Africa.

HST 457 The Colonial Experience, 1607-1763

3 hours. Offered 2002-03. 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

HUMAN PERFORMANCE

a unique American identity, and the importance of community as opposed to the distant British government in the lives of everyday citizens.

HST 458 The Making of the American Republic, 1754-1825

3 hours. Offered 2002-03. 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.

HST 459 The Era of the Civil War, 1825-1898

3 hours. Offered 2002-03. 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."

HST 468 America in the Time of the Two World Wars, 1898-1945

3 hours. Offered 2001-02. 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 U.S. in the world.

HST 469 Recent America, 1945 to the Present

3 hours. Offered 2001-02. 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.

HST 470 Renaissance and Reformation

3 hours. Offered 2002-03. 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.

HST 475 Field Experience

2-10 hours. Supervised experiences in museums, historical societies, and government agencies. For upper-division history majors only, by permission.

HST 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.

HST 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.

HST 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. For upper-division history majors only, by permission.

HUMAN PERFORMANCE

Additional courses are listed under Health Education.

HHP 200 History and Principles of Physical Education

2 hours. Offered 2002-03. 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.

HHP 221 Basketball/Golf

1 hour. Offered 2002-03. Intermediate to advanced instruction in skills, teaching techniques, rules, and strategy for basketball and golf.

HHP 222 Field Sports

1 hour. Offered 2002-03. Intermediate to advanced instruction in skills, teaching techniques, rules, and strategy. Flag football, soccer, speedball, and korbball are emphasized.

HHP 223 Tumbling/Gymnastics

1 hour. Offered 2001-02. Intermediate to advanced instruction in skills, teaching techniques, spotting, and safety factors involved in tumbling and gymnastics.

HHP 226 Tennis/Volleyball

1 hour. Offered 2001-02. Intermediate to advanced skills and techniques, with emphasis on learning how to teach basic skills and drills. Tournament organization and game administration are included.

HHP 227A Lifeguard Training

1 hour. This course focuses on the job of a lifeguard in the swimming pool environment. Victim recognition, surveillance, and equipment-based rescues will be emphasized. First aid and CPR-PR are included. Upon successful completion two nationally recognized certifications will be issued — Lifeguard Training/First Aid (valid for three years) and CPR for the Professional Rescuer (valid for one year). Specific swimming prerequisites required.

HHP 227B Water Safety Instruction

2 hours. The purpose of this course is to train instructor candidates to teach infant, preschool, and school-age learn-to-swim programs, the Community Water Safety, Basic Water Rescue, and Water Safety Instructor Aide courses. Learn instruction techniques from preschool to the most advanced levels of swimming. Six hours of lab work will be assigned. Upon successful completion the nationally recognized Water Safety Instructor certification will be issued (valid for two years). Prerequisites: Specific swimming and knowledge required.

HHP 228 Conditioning/Body Mechanics and Aerobics

1 hour. Offered 2001-02. Instruction in concepts related to developing and maintaining physical fitness and movement skills.

HHP 229 Folk and Western Dance

1 hour. Instruction in basic to intermediate steps in international folk dances, in Western dance, and in ballroom dance.

HHP 232 Recreational Games, Individual and Team

1 hour. Offered 2002-03. Intermediate to advanced instruction in skills, teaching techniques, rules, and strategy for archery, badminton, and recreational games.

HHP 295 Special Study

1-3 hours. Individual research under the guidance of the faculty.
Prerequisite: consent of the instructor.

HHP 300 Coaching Theory and Practice

2 hours. Offered 2002-03. The development of a philosophy of coaching. Emphasizes the psychological, sociological, and technical aspects of athletic participation.

HHP 310 Coaching Basketball

2 hours. Offered 2001-02. 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: consent of the instructor.

HHP 320 Coaching Baseball/Softball

2 hours. Offered 2002-03. 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.
Prerequisite: consent of the instructor.

HHP 330 Coaching Soccer

2 hours. Offered 2002-03. 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: consent of the instructor.

HHP 333 Developmental Health and Physical Education

2 hours. Emphasis on teaching health concepts and development of movement mechanics, games of low organization, fundamental sports skills, stunts, tumbling, and self-testing activities at the preschool and elementary level. Laboratory included. Identical to EDU 333.

HHP 340 Coaching Track

2 hours. Offered 2001-02. 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 consent of the instructor.

HHP 350 Coaching Volleyball

2 hours. Offered 2002-03. 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.
Prerequisite: consent of the instructor.

HHP 360 Organization and Administration of Health, Physical Education, and Athletic Training

2 hours. Offered 2002-03. Instruction in the planning and implementation of health, physical education, athletic training, and athletic programs. Course content will include curriculum design, budget formation, facility design, and coordination. Professional conduct and ethics will be stressed.

HHP 365 Current Issues in Athletic Training

1 hour. A seminar designed for athletic training majors. Topics to be discussed include case studies, new technology, and topics of interest. Emphasis will be on current research. Prerequisite: HHP 390 Care and Prevention of Athletic Injuries.

HHP 370 Camp Programming and Counseling

3 hours. Offered 2001-02. 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. (Identical to CHM 370.)

HHP 375 Athletic Training Practicum

1 hour. Supervised experience in an athletic training environment. Additional study required, with an emphasis on athletic training techniques and athletic injury management. Course to be repeated each semester. Prerequisite: HHP 390 Care and Prevention of Athletic Injuries, HHP 413 Therapeutic Exercise, HHP 414 Therapeutic Modalities, and declared athletic training major. (4 hours required.)

HHP 380 Recreational Leadership

2 hours. A study of leadership styles, techniques, and methods in the field of recreation. The course also will include practical information on the construction and operation of intramural programs in a variety of settings.

HUMAN PERFORMANCE**HHP 384 Pharmacology in Athletic Training**

1 hour. Offered 2001-02. 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: BIO 221, 222 Human Anatomy and Physiology.

HHP 390 Care and Prevention of Athletic Injuries

3 hours. An introductory survey of athletic training. Emphasis will be on terminology, injury evaluation, rehabilitation, and emergency care procedures. Common taping techniques also will be presented.

HHP 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: BIO 221, 222 Human Anatomy and Physiology.

HHP 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. Prerequisites: BIO 221 Human Anatomy and Physiology, and HHP 390 Care and Prevention of Athletic Injuries.

HHP 413 Therapeutic Exercise

2 hours. Offered 2001-02. 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: HHP 390 Care and Prevention of Athletic Injuries, and HHP 394 Kinesiology.

HHP 414 Therapeutic Modalities

2 hours. Offered 2001-02. Course will examine the role of therapeutic modalities of thermal and electrical agents, ultrasound, and mechanical modalities in the rehabilitation of the injured athlete. Includes a lab for practice. Prerequisite: HHP 390 Care and Prevention of Athletic Injuries.

HHP 430 Exercise Physiology

3 hours. Offered 2001-02. 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. Prerequisite: BIO 221, 222 Human Anatomy and Physiology.

HHP 440 Camp Administration

2 hours. Offered 2001-02. Designed to develop a basic understanding of programming, business, and leadership at an administrative level. A weekend camping trip is required. (Identical to CHM 440.)

HHP 460 Physical Education for the Exceptional Student

3 hours. Offered 2002-03. This course considers the nature and etiology of disabilities and handicapping conditions, as well as the implications for and development of appropriate physical education programs.

HHP 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.

HHP 475 Fitness Management Field Experience

9 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. By permission only, with application made one semester in advance of placement.

HHP 480 Tests and Measurements in Physical Education

2 hours. Offered 2002-03. Emphasis is given to methods of evaluation in programs of physical education. Testing procedures, standard tests, physical examinations, and evaluation activities are discussed.

HHP 485 Selected Topics

2-3 hours. A seminar dealing with various topics, as announced, that represent current faculty interests and competencies.

HHP 490 Senior Seminar

1 hour. Discussion of current issues in health, physical education, and athletics. Senior thesis is required.

HHP 495 Special Study

1-3 hours. Individual research under the guidance of the faculty. Prerequisite: Consent of the instructor.

HPA 100-139/300-339 Human Performance Activities

1 hour. Three hours of credit required for graduation. (One hour of health education may be applied to the required 3 hours.) Instruction in fundamental skills, rules, and strategy. Personal selection may be made from a variety of sports, recreational, and leisure-time activities as they are scheduled each semester.

HPA 125 Adapted Activities

1 hour. 3 hours of credit required for graduation. Offered to those students who are unable to participate in regular physical education activities because of physical limitations. A statement from the student's physician is required.

HPA 145/345 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.

INTERNATIONAL STUDIES

INS 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 GEO 200.)

INS 310 Cultural Anthropology

3 hours. A comparative study of world societies and their ways of life. (Identical to SOC 310.)

INS 330 Introduction to the World Christian Movement

3 hours. Offered 2002-03. 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 REL 330.)

INS 340 International Relations

3 hours. Offered 2002-03. Introduction to the principles and study of interstate relations in the contemporary world. Special attention is given to the problem of sovereignty, the United Nations, and international law. (Identical to PSC 340.)

INS 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 REL 440.)

INS 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.

Prerequisites: ECO 201 Principles of Microeconomics and ECO 202 Principles of Macroeconomics.

INS 475 Culture-Oriented Field Work

3-12 hours. Supervised experiences in a non-American culture. For upper-division international studies majors or minors only, by permission.

INS 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.

JAPANESE

JPN 101, 102 First-Year Japanese

3 hours each semester. 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.

JPN 201, 202 Second-Year Japanese

3 hours each semester. A thorough review of Japanese language structures, with intensive practice in reading, speaking, and writing. Language lab listening and interaction are required. Prerequisite: JPN 102 First-Year Japanese, or two years of high school Japanese, or by testing.

LEADERSHIP STUDIES

LDR 475 Leadership Experience

1-2 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 only.)

LDR 490 Leadership Seminar

1 hour per semester/4 semesters total. 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 only.)

LITERATURE

LIT 100 Introduction to Literature

3 hours. An introductory course familiarizing students with the major genres, themes, and elements of literature.

LIT 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.

LIT 231 Masterpieces of World Literature, Western

3 hours. An introduction to selected works in Western literature from the classical to modern periods, stressing those themes and forms that exemplify the ideals and concerns of our shared human condition.

LITERATURE

LIT 232 Masterpieces of World Literature, Non-Western

3 hours. An introduction to selected works in non-Western literature, stressing those themes and forms that exemplify the ideals and concerns of our shared human condition.

LIT 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 THE 240.)

LIT 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.

LIT 285/485 Selected Literary Topics

3 hours. A course offered occasionally whereby professors and students may 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.

LIT 326 American Literature to 1865

3 hours. A selective look at early American literature, from 1607 to 1865. A study of the themes, movements, and writers who influenced and were influenced by the growth of the new nation. Prerequisite: One 100- or 200-level literature course or consent of the instructor.

LIT 327 American Literature, 1865 to 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: One 100- or 200-level literature course or consent of the instructor.

LIT 328 American Literature, 1914 to the 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: One 100- or 200-level literature course or consent of the instructor.

LIT 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. The course will explore the interaction of form and content and the relationship of text to context. Prerequisite: LIT 100 Introduction to Literature, or consent of the instructor.

LIT 350 Literary Criticism

3 hours. A course that provides students with background information about schools of literary criticism. Students will practice using different critical approaches to writing about literature. Recommended for sophomores and juniors. Prerequisite: 6 hours of literature courses or permission of the instructor.

LIT 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.

LIT 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: one 100- or 200-level literature course or consent of the instructor.

LIT 377 British Literature, 1660 to 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: one 100- or 200-level literature course or consent of the instructor.

LIT 378 British Literature, 1830 to the 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: one 100- or 200-level literature course or consent of the instructor.

LIT 385 Major Authors

3 hours. A course that 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: LIT 100 Introduction to Literature, or consent of the instructor.

LIT 440 A Study of the Modern Novel

3 hours. An examination of the modern novel as a distinct literary form. Discussions of such issues as the relationship between novelistic structure and ideology, of social conventions, and conventions of fiction combined with the analysis of important world writers. Prerequisite: LIT 100 Introduction to Literature, or consent of the instructor.

LIT 495 Individual Research

1-3 hours. Individualized study related to the student's needs and interests. Open to exceptional students at the discretion of a faculty member.

MATHEMATICS

MIH 100 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.

MIH 120 Intermediate Algebra

3 hours. A course for students who have had an introductory course in algebra or who require further review before taking additional courses in math or science. Topics include the solving of linear equations and systems of equations, factoring of polynomials, and an introduction to functions.

MIH 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: MTH 120 Intermediate Algebra, or its equivalent.

MIH 201, 202, 301 Calculus I, II, III

4 hours each semester for MIH 201, 202; 3 hours for MTH 301. A study of differential and integral calculus, including functions of more than one variable. Additional topics include vector geometry infinite series, and applications. Prerequisite: MTH 190 Precalculus Mathematics, or equivalent.

MIH 240 Statistical Procedures

3 hours. Statistical procedures for the social sciences. Emphasis on the development of a basic knowledge of the statistical tools available for the analysis of problems and issues in the social sciences. (Identical to PSY 340 and SOC 340.) Prerequisite: high school algebra or equivalent.

MIH 260 Discrete Mathematics

3 hours. Offered 2002-03. An introduction to discrete mathematics. Topics covered include sets, functions, math induction, combinatorics, recurrence, graph theory, trees, and networks. Prerequisite: MTH 190 Precalculus Mathematics.

MIH 290 Mathematical Logic

3 hours. Offered 2001-02. 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, set theory, etc. Prerequisite: MTH 201 Calculus I.

MIH 300 Numerical Methods

3 hours. Offered 2001-02. 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. Prerequisites: MTH 202 Calculus II, and either CIS 201 Introduction to Computer Science or EGR 152 Engineering Principles II. (Identical to CIS 300.)

MIH 310 Differential Equations

3 hours. Offered 2001-02. A study of the theory, methods of solution, and applications of ordinary differential equations. Methods include series solutions and LaPlace transforms. Prerequisite: MTH 301 Calculus III.

MIH 320 Linear Algebra

3 hours. Offered 2002-03. A study of matrices and their properties and application, linear transformations, and vector spaces. Prerequisite: MTH 301 Calculus III.

MIH 331 Probability

3 hours. Offered 2001-02. A study of sample spaces, combinatory methods, discrete and continuous distributions, moment-generating functions, and the central limit theorem. Prerequisite: MTH 301 Calculus III.

MIH 332 Mathematical Statistics

3 hours. Offered 2001-02. 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: MTH 331 Probability.

MIH 340 Elementary Number Theory

3 hours. Offered 2002-03. 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: MTH 202 Calculus II and MTH 290 Mathematical Logic.

MIH 350 Modern Geometry

3 hours. Offered 2002-03. A rigorous study of Euclidean geometry and an introduction to non-Euclidean geometries. Prerequisites: MTH 202 Calculus II and MTH 290 Mathematical Logic.

MIH 410 Algebraic Structures

3 hours. Offered 2001-02. A study of groups, rings, integral domains, fields, polynomial rings, and algebraic number systems. Prerequisites: MTH 202 Calculus II and MTH 290 Mathematical Logic.

MIH 485 Special Topics

1-3 hours. A class with topics in mathematics chosen to fit special needs or interests of students, faculty, or visiting professors. Prerequisite: MTH 301 Calculus III.

MIH 490 Senior Seminar

2 hours. Offered 2002-03. 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 standing.

MEDIA COMMUNICATION**MIH 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. For upper-division mathematics majors only, by permission.

MEDIA COMMUNICATION**CMB 230 Introduction to Television Production**

3 hours. An introduction to the language and the technical, creative, and aesthetic elements of the television 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.

CMB 250 Digital Multimedia Production

3 hours. The focus of the course is on effective communication strategies of interactive media as traditional media converges on the digital platform. Special attention will focus on designing nonlinear programs that allow flexible paths accessing information. Students will have the opportunity to experiment with creating media elements (audio, video, graphics, photography, and text) and organizing them into interactive CDs and Internet Web pages.

CMB 260 Scriptwriting for Media

3 hours. Offered 2002-03. An introduction to the styles, techniques, content, and forms of media writing. Nondramatic forms of writing — including broadcast news, commercial, television feature, and informational — are covered. The writing of several short scripts is required in the course. Prerequisite: WRI 110 Freshman Composition.

CMB 295 Broadcast News

3 hours. Offered 2001-02. Striking a balance between analysis and production, Broadcast News looks at the historical roots and current trends of television news. Students put this analytical knowledge to the test in producing their own news stories to air on cable TV.

CMB 320 Dramatic Scriptwriting

3 hours. Offered 2001-02. An introduction to the art of dramatic writing for television and film. Dramatic structure, plot scenarios, dialogue, characterization, and moralization are among several topics examined and exercised. The writing experience is complemented through an examination of the business aspects of writing, including spec-scripts, agents, and the Hollywood system.

CMB 340 Audio Production and Broadcasting

3 hours. Offered 2002-03. Concentrating on recording, editing, and mixing multi-track audio on a digital platform. The course will look at special recording techniques used for (a) human voices in speaking, singing, and dramatic performance, (b) musical instruments, and (c) dramatic sound effects. Students will complete projects in editing and mixing of multi-track sound programs.

CMB 350 Editing Video

3 hours. Offered 2002-03. 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.

CMB 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.

CMB 430 Producing and Directing Television

3 hours. Offered 2001-02. An advanced course in television directing and producing, from program conceptualization to evaluation of the finished program. Concentration on the principles and aptitudes of planning and picturization of script material, culminating in the production and editing of television programs. Prerequisite: permission of the instructor.

CMB 475 Field Experience

3-10 hours. An internship experience designed to give students an opportunity to practice television 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 three hours may apply to the communication media major. Prerequisite: permission of the instructor.

CMB 485 Selected Topics

3 hours. A variety of topics that reflect the interests of faculty, students, and area professionals. May include broadcast news.

CMB 495 Independent 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.

MUSIC

♦ Applied Music

MUA 105/305 Applied Voice

1 or 2 hours. 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.

MUA 105/305 Applied Piano

1 or 2 hours. Technical exercises, scales, and arpeggios in various rhythms; etudes 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.

MUA 105/305 Applied Organ

1 or 2 hours. Basic study of pedal and manual techniques. Standard works from the Baroque, Classic, Romantic, and Modern periods.

MUA 105/305 Applied Strings

1 or 2 hours. 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.

MUA 105/305 Applied Woodwinds

1 or 2 hours. 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.

MUA 105/305 Applied Brass

1 or 2 hours. 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.

MUA 105/305 Applied Percussion

1 or 2 hours. 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.

MUA 105/305 Applied Guitar

1 or 2 hours. 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.

♦ Ensembles

MUA 115/315 Festival Chorus

1/2 hour. The chorus is composed of members of all the University choirs. It also is open to all University students, University faculty and staff, alumni, and community singers. The chorus, typically accompanied by orchestra, performs a significant sacred choral work from the choral repertoire each spring. Handel's Messiah is performed every third year.

MUA 125/325 Concert Choir

1 or 1/2 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. Membership is by audition.

MUA 125T/325T Music Theatre

1 or 1/2 hour. Chorus members and leading roles are selected by audition. Membership also 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.

MUA 135A/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. Membership is by audition.

MUA 135B/335B Bel Canto Singers

1/2 hour. Featuring women's voices, this group sings a varied repertoire and performs in regional churches and on campus. Membership is by audition.

MUA 135D/335D Dayspring

1/2 hour. This ensemble, composed of talented and versatile singers and instrumentalists, represents the University in churches, high schools, banquets, service clubs, and University functions. Their repertoire includes Christian contemporary settings, arrangements of traditional hymns and spirituals, and vocal jazz. Membership is selected through interviews and auditions with representatives of the music, development, and admission departments.

MUA 135H/335H George Fox University Handbell Ringers

1/2 hour. This musical ensemble shares its music with community agencies, churches, and University audiences. Open to all by audition. Limited to 12 ringers.

MUSIC

MUA 145/345 Wind Ensemble

1 or 1/2 hour. The Wind Ensemble is a touring ensemble that plays concerts throughout the Northwest. A fall pops concert features music from the classical pops to current movie themes. 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. Admission is by consent of the instructor.

MUA 145J/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. Members who are music majors must also be enrolled in the Wind Ensemble.

MUA 155/355 Chehalis Symphony Orchestra

1 or 1/2 hour. (Strings 1 hour; winds and percussion 1/2 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 Festival Chorus. Admission is by consent of the instructor.

MUA 165/365 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, or woodwind quintet.

♦ Theory and Literature

The World of Music is offered under GED 110.

MUS 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.

MUS 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.

MUS 111, 112 Introduction to Music Literature

2 hours each semester. A course to develop music appreciation through extensive listening to standard works. Study of vocal and instrumental forms and styles of the various periods.

MUS 121, 122 Theory I

3 hours each semester. 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. Prerequisite: MUS 131, 132 Sight Singing and Ear Training.

MUS 125 Voice Class

1 hour. May be repeated for credit. A course designed for beginning singers who wish to understand, improve, and enhance their individual voices. Classroom participation will include instruction in basic vocal technique and care of the voice. Students will learn a variety of song literature and vocal exercises.

MUS 131, 132 Sight Singing and Ear Training

1 hour each semester (two class hours a week). A lab experience designed to develop proficiency in singing prepared melodies, melodies at sight, rhythmic patterns, and in taking basic melodic dictation. Music majors should register for this lab as a required component of MUS 121, 122 Theory I, which should be taken concurrently.

MUS 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. It is required of all music majors who have not yet met the piano proficiency skill level. 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.

MUS 140 Organ for Pianists

1 hour. Offered 2002-03. Group instruction in organ, its design, literature, and performance techniques. Designed for pianists of at least intermediate keyboard competency with no previous experience in organ.

MUS 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.

MUS 180 MIDI (Musical Instrument Digital Interface)**Applications**

2 hours. This course offers experience with the various music printing and sequencing software programs in current use and fosters the development of solid techniques in digital composition and arranging. May be repeated for credit.

MUS 200 Basic Conducting

1½ 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 common problems in leading group singing and in directing musical ensembles.

MUS 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.

MUS 220 Vocal Techniques

1 hour. Offered 2001-02. Fundamental instruction in understanding the basic techniques of singing. Recommended for those who seek to gain a basic understanding of fundamental singing concepts.

MUS 221, 222 Theory II

4 hours each semester. A continuation of Theory I. Includes chromatic harmonies and remote modulations. Introduction to 20th-century harmonic usage. Creative work is required. Prerequisite: MUS 121, 122 Theory I.

MUS 230 String Techniques

1 hour. Offered 2001-02. Elementary class instruction in the techniques of playing stringed instruments.

MUS 250 Folk Guitar Techniques

1 hour. This course offers elementary class instruction in the techniques of playing folk guitar. Proper hand position, fingering, and strumming styles, and a reasonably broad range of chords are presented. Emphasis is upon building a solid accompaniment to songs likely to be used in preschool through secondary school grades.

MUS 260 Band Techniques

2 hours. Offered 2002-03. Elementary class instruction in the technique of playing woodwind, brass, and percussion instruments to provide adequate teaching knowledge.

MUS 285 Selected Topics

1-2 hours. Subjects are offered reflecting music faculty expertise on topics of interest to students.

MUS 310 Counterpoint

2 hours. Offered on demand. Principles of 18th-century polyphony. Detailed study of the works of J. S. Bach and his contemporaries. Original composition required. Prerequisites: MUS 221, 222 Theory II.

MUS 311, 312 Music History

3 hours each semester. 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: MUS 121, 122 Theory I.

MUS 320 Form and Analysis

2 hours. Offered 2001-02. 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: MUS 221, 222 Theory II.

MUS 340 Church Music (History and Administration)

3 hours. Offered 2001-02. A study of music within the church, viewed historically from the early centuries through the needs of the contemporary church.

MUS 380 Keyboard Improvisation and Service Playing

2 hours. Offered 2002-03. A practical course for pianists and organists seeking to discover creative approaches in programming and leading the congregation in inspirational worship and celebration.

MUS 420 Composition

2 hours. Offered 2002-03. Detailed study of representative works in the contemporary musical idiom and creative writing within the smaller forms. Prerequisites: MUS 221, 222 Theory II.

MUS 430 Instrumentation and Orchestration

2 hours. Offered 2001-02. 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: MUS 221, 222 Theory II.

MUS 460 Advanced Conducting

2 hours. Offered 2001-02. 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: MUS 200 Basic Conducting.

MUS 475 Field Experience

1-5 hours. Supervised experience in music apprenticeship as conductor, performer or composer. Prerequisite: Consent of music faculty.

MUS 485 Selected Topics

1-3 hours. A seminar lecture class concerned with current faculty interests and areas of research. Topics available are keyboard pedagogy, piano technician, language orientation for the singer, contemporary literature, MIDI lab, vocal pedagogy, conducting practicum, history of black music, and chamber, symphonic, and choral literature.

MUS 491, 492 Senior Seminar, Recital/Lecture

1 hour each semester. Students prepare a project in cooperation with a faculty advisor. The project is presented before an audience and filed permanently in the music department.

MUS 495 Special Study

1-3 hours. Individual research under the guidance of the faculty. Prerequisite: Consent of music faculty.

PHILOSOPHY — POLITICAL SCIENCE

PHILOSOPHY**PHL 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 persons over the centuries.

PHL 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.

PHL 260 Sociological Theory

3 hours. A critical study of some major social philosophers from Comte to the present. (Identical to SOC 260.) Prerequisites: SOC 150 Principles of Sociology, and PHL 210 Introduction to Philosophy, or permission of the instructor.

PHL 270 Philosophy of Art

3 hours. Offered 2001-02. An introduction to philosophical issues in the arts, such as art and morality, the nature of creativity, aesthetics, and the relation of art to worldviews.

PHL 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.

PHL 340 Logic

3 hours. Offered 2001-02. 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.

PHL 380 History of Philosophy Survey

3 hours. Offered 2001-02. A one-semester survey of the history of Western philosophy. Emphasizes the connections and contrasts between historical periods.

PHL 382 History of Philosophy Seminar

3 hours. Offered 2001-02. 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 PHL 340 Logic, or instructor's consent.

PHL 410 Contemporary Philosophers and Problems

3 hours. A study of significant 20th-century philosophers and selected philosophical issues in recent literature. Prerequisite: A philosophy course other than PHL 340 Logic, or instructor's consent.

PHL 485 Selected Topics

2 hours. A seminar on a topic chosen by the professor. Open to upper-division majors and others by permission.

PHL 495 Special Study

1-3 hours. Individual research. Open to qualified students upon application.

PHYSICS**PHY 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.

PHY 201, 202 General Physics

4 hours each semester. Mechanics, thermodynamics, electricity and magnetism, wave motion and optics, and modern physics, using algebraic methods for analysis. Prerequisite: MTH 190 Precalculus Mathematics.

PHY 211, 212 General Physics with Calculus

4 hours each semester. Mechanics, thermodynamics, electricity and magnetism, wave motion and optics, and modern physics, using calculus methods for analysis. Prerequisite: MTH 201 Calculus I.

POLITICAL SCIENCE**PSC 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.

PSC 190 American Government

3 hours. The theory and practice of the federal government and the study of key issues in government in general.

PSC 220/420 War and Conscience in the United States

3 hours. Offered 2001-02. 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 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 HST 220/420.)

PSC 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.

PSC 250 International Conflict and Peace

3 hours. An introduction to peace studies. Useful both as a foundation for other peace studies courses and as a single course to fit in with other majors. Includes exploration of the history of warfare and peacemaking, and of nonviolent alternatives to war. (Identical to SOC 250.)

PSC 260 Introduction to Law

3 hours. Offered 2001-02. 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.

PSC 270 Introduction to Political Philosophy

3 hours. Offered 2001-02. 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.

PSC 285/485 Selected Topics

1-3 hours. A seminar dealing with various topics as announced that represent current faculty interests and competencies.

PSC 310 Conflict Resolution

3 hours. Offered 2001-02. 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 COM 310.)

PSC 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.

PSC 340 International Relations

3 hours. Introduction to the principles and study of interstate relations in the contemporary world. Special attention is given to the problem of sovereignty, the United Nations, and international law. (Identical to INS 340.)

PSC 350 Seminar on the First Amendment

3 hours. Offered 2001-02. Studies the Supreme Court's interpretation of the First Amendment, with an emphasis on its religion clauses. The political, historical, and theoretical background of the amendment and subsequent cases is carefully considered.

PSC 360 Criminal Rights and Equal Protection

3 hours. This course focuses on major Supreme Court decisions regarding criminal law and the civil rights of women and racial minorities. The issues of abortion and the death penalty are examined in detail.

PSC 370 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.

PSC 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 HST 390.)

PSC 410 Community Mediation

3 hours. Offered 2001-02. 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.

PSC 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.

PSC 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.

PSC 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.

PSC 475 Field Experience

2-12 hours. Supervised experiences in varied government agencies. For upper-division students only, by permission.

PSC 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. As well, students will complete a major project that requires them to draw together skills and information they have learned in lower level courses.

PSYCHOLOGY

PSYCHOLOGY**PSY 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, emotion, motivation, personality, social interaction, and abnormal behavior. One section of the course will be available for students who know they want to major in psychology. The section for majors will cover the same major topics but will prepare students to engage these topics on a professional level. Prerequisite to all other psychology courses.

PSY 275 Exploratory Field Experience

2-3 hours. An opportunity to observe professionals in the helping environment.

PSY 300 Group Dynamics

3 hours. A study and application of principles and techniques involved in interaction of individuals within various groups. (Identical to SOC 300.) Prerequisite: PSY 150 General Psychology.

PSY 310 Lifespan Human Development

3 hours. Offered 2001-02. A study of physical, intellectual, personality, social, and moral development from infancy to old age. (Identical to SWK 310.) Prerequisite: PSY 150 General Psychology.

PSY 311 Human Development: Infancy to Adolescence

3 hours. A study of physical, intellectual, personality, social, and moral development from the prenatal period to adolescence. (Identical to FCS 311, SWK 311.) Prerequisite: PSY 150 General Psychology.

PSY 312 Human Development: Young Adulthood to Old Age

3 hours. Offered 2002-03. A study of physical, intellectual, personality, social, and moral development from young adulthood to old age. This course continues the discussion begun in PSY 311 Human Development: Infancy to Adolescence. Prerequisite: PSY 150 General Psychology.

PSY 313 Human Development Lab

1 hour. Offered 2002-03. Students will gain experience with a variety of methodological approaches used in developmental research by conducting studies on a variety of age groups. Must be taken concurrently with PSY 311 Human Development: Infancy to Adolescence. Prerequisite: PSY 340 Statistical Procedures and PSY 390 Research Methods.

PSY 320 Introduction to Neuroscience

3 hours. Offered 2002-03. This course provides an overview of the neuropsychological basis for mental functions including motor control, object recognition, spatial reasoning, attention, language, memory, and emotion. Methods of neuropsychological research are explored. Philosophical, mathematical, and computer-related issues relevant to neuroscience and cognitive science are also presented.

PSY 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: PSY 150 General Psychology.

PSY 340 Statistical Procedures

3 hours. Applied statistics for the social and behavioral sciences. Emphasis is placed on statistical logic and decision making. (Identical to MTH 240 and SOC 340.) Prerequisites: PSY 150 General Psychology, and high school algebra or equivalent.

PSY 350 Social Psychology

3 hours. Offered 2001-02. 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. (Not identical to SOC350.) Prerequisite: PSY 150 General Psychology.

PSY 360 Learning

3 hours. Offered 2001-02. 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. Current approaches to learning, and the impact of computer models on learning theory, also will be explored. Prerequisite: PSY 150 General Psychology.

PSY 361 Learning Lab

1 hour. Offered 2001-02. Students will replicate classic experiments that highlight the difference between Operant and Classical conditioning, and explore shaping, blocking, higher-order conditioning, and transfer of learning. Must be taken concurrently with PSY 360 Learning. Prerequisites: PSY 340 Statistical Procedures and PSY 390 Research Methods.

PSY 370 Cognition

3 hours. Offered 2002-03. 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: PSY 150 General Psychology.

PSY 371 Cognition Lab

1 hour. Offered 2002-03. Students will explore the experimental methods used in each of the major areas of cognition by replicating significant studies in those areas. Understanding how these research findings build theories in cognition will also be emphasized. Must be taken concurrently with PSY 370 Cognition. Prerequisites: PSY 340 Statistical Procedures and PSY 390 Research Methods.

PSY 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. Open to sophomores and above. (Identical to CHM 381.) Recommended as a prerequisite for field experience work (PSY 475). Prerequisite: PSY 150 General Psychology. Recommended: PSY 330 Personality Theories.

PSY 382 Advanced Counseling

1 hour. This course builds on the knowledge and skills learned in PSY 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: PSY 381 Counseling. Recommended: PSY 330 Personality Theories.

PSY 390 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: PSY 150 General Psychology, PSY 340 Statistical Procedures.

PSY 400 Psychometrics

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. Prerequisite: PSY 390 Research Methods.

PSY 401 Psychometrics Lab

1 hour. Students will computer-analyze test development projects and develop their own test focusing on its psychometric properties. Reliability and validity measures will be emphasized, along with current test development techniques. Must be taken concurrently with PSY 400 Psychometrics.

PSY 410 Sensation and Perception

3 hours. Offered 2001-02. Using psychophysical techniques, students will study sensory systems, including vision, audition, olfaction, taste, touch, and kinesthesia. Classic and current theories of perception and sensation will be discussed. Prerequisite: PSY 150 General Psychology.

PSY 411 Sensation and Perception Lab

1 hour. Offered 2001-02. Students will measure sensory thresholds, as well as study perceptual phenomena such as illusions, and the impact experience and values have on perception. Must be taken concurrently with PSY 410 Sensation and Perception. Prerequisites: PSY 340 Statistical Procedures and PSY 390 Research Methods.

PSY 420 Abnormal Psychology

3 hours. Offered 2002-03. A study of the nature, causation, and treatment of the major psychiatric and behavioral disorders. Prerequisite: PSY 150 General Psychology.

PSY 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: PSY 150 General Psychology.

PSY 450 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: PSY 150 General Psychology.

PSY 460 Physiological Psychology

3 hours. Offered 2001-02. This course will introduce students to the fundamental principles of neuroanatomy, psychobiochemistry, and the physiological basis of behavior. A biobehavioral approach to the understanding of behavior will be explored. Prerequisite: PSY 150 General Psychology.

PSY 475 Field Experience

2-10 hours. Supervised experiences in helping activities in mental health agencies and institutions. A maximum of three hours may be applied toward a psychology major. For upper-division majors only, by permission. Recommended: PSY 381 Counseling.

PSY 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 advanced counseling, biological psychology, psychology of religion, and psychology of gender. Prerequisite: PSY 150 General Psychology.

PSY 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 standing.

PSY 495 Special Study/Research

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. For upper-division psychology majors only, by permission.

RELIGION

RELIGION

Note: All students must take as their senior capstone course their choice of REL 470, REL 480, or REL 490. Each of these offerings is designed to integrate Christian faith and culture meaningfully.

REL 230/430 Sociology of Religion

3 hours. A sociological examination to 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 SOC 230/430.)

REL 250 Great Moments, Key Persons in Christianity

2 hours. An introduction to the major events and personalities, Western and non-Western, that have shaped the development of Christianity from the time of Jesus to the present. The thought and contributions of individual men and women will be explored in historical context. Significant doctrines will be examined in relation to persons and events.

REL 260 History and Doctrine of Friends

2 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.

REL 270 History and Doctrine of _____ (Selected Churches)

2 hours. Offered upon sufficient demand by denominational leaders, who supply the appropriate course descriptions.

REL 330 Introduction to the World Christian Movement

3 hours. Offered 2002-03. 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 INS 330.)

REL 360 Cross-Cultural Christian Outreach

3 hours. Offered 2001-02. 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.

REL 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.

REL 401 Christianity in History

3 hours. Offered 2001-02. 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 HST 401.)

REL 402 Christianity in History

3 hours. Offered 2001-02. 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 HST 402.)

REL 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 INS 440.)

REL 460 Issues in Contemporary Missions

3 hours. Offered 2001-02. 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.

REL 470 Christian Classics

2 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. As this is a senior capstone course, students must be juniors or seniors.

REL 480 Spiritual Formation

2 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. As this is a senior capstone course, students must be juniors or seniors.

REL 485 Selected Topics

2 hours. A seminar on a topic chosen by the professor. Open to upper-division majors and others by permission.

REL 490 Contemporary Religious Life

2 hours. The movements, 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.

REL 495 Special Study

1-3 hours. Individual research. Open to qualified students upon application.

SIGN LANGUAGE

ASL 101, 102 American Sign Language

2 hours each semester. Offered 2001-02. An introduction to American Sign Language, 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.

SOCIAL WORK

SWK 180 Introduction to Social Welfare

3 hours. An introduction to the philosophy, historical development, and current practices of generalist social welfare. An examination of the knowledge base, values, skills, practices, ethics, settings, educational, and career opportunities of the discipline and profession. Emphasis is upon developing awareness of the scope of the profession using a scientific, analytic approach to service delivery and evaluation; relating generalist social work and social welfare systems; economic and social justice; and work with diverse, oppressed, and at-risk populations. Course includes community service opportunities and/or social agency tours. Required for admission into the social work major.

SWK 285 Selected Topics

1-3 hours. A special-interest class offered on a one-time basis addressing a subject in the field that is of general interest to the University community. By permission.

SWK 310 Lifespan Human Development

3 hours. Offered 2001-02. A study of physical, intellectual, personality, social, and moral development from infancy to old age. (Identical to PSY 310.) Prerequisite: PSY 150 General Psychology. Required for majors.

SWK 320 Child Abuse and Family Violence

3 hours. Offered 2002-03. A multidisciplinary approach that considers causation, incidence, and treatment of families and children experiencing physical and emotional violence in the family. Basic principles of child welfare, victim assistance, protective shelters, and supporting services will be explored. Prerequisites: PSY 150 General Psychology and SOC 150 Principles of Sociology, or permission of instructor.

SWK 330 Human Behavior in the Social Environment

3 hours. Examines human behavior and interpersonal relationships within social systems: families, organizations, communities, voluntary, and subcultural groups. Applies theoretical information from biology, sociology, anthropology, psychology, and theology to situations encountered by social workers and other helping professionals. Includes examples from culturally, racially, and ethnically diverse populations. Prerequisites: PSY 150 General Psychology, SOC 150 Principles of Sociology, SWK 180 Introduction to Social Welfare, and SWK 310 Lifespan Human Development, or permission of instructor. Required for majors.

SWK 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 (SWK 475). Prerequisites: PSY 150 General Psychology, SOC 150 Principles of Sociology, SWK 180 Introduction to Social Welfare, and formal admission into the social work program. Required for majors. This class is open to declared social work majors only.

SWK 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 SWK 476 Field Experience/Practicum II. Prerequisite: SWK 391 Social Work Practice I. Required for majors. This class is open to declared social work majors only.

SWK 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 SWK 477 Field Experience/Practicum III. Prerequisite: SWK 392 Social Work Practice II. Required for majors. This class is open to declared social work majors only.

SWK 400 Child Welfare Services

3 hours. Offered 2001-02. 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. Prerequisites: SOC 200 Social Issues and SWK 180 Introduction to Social Welfare or permission of the instructor.

SWK 450 Aging in Society

3 hours. Offered 2001-02. A study of the adult aging process in its diverse social dimensions. An exploration of the aging network and its various services and programs will be a secondary focus of study. (Identical to SOC 450.) Prerequisite: SOC 150 Principles of Sociology or permission of the instructor.

SOCIAL WORK**SWK 461 Social Policy I**

3 hours. The policies of contemporary social programs are considered from a national, state, and local perspective. Policy development and analysis are emphasized. Prerequisites: SWK 180 Introduction to Social Welfare, SOC 200 Social Issues, PSC 150 Introduction to Political Science, PSC 190 American Government or PSC 240 State and Local Government, SWK 475 Field Experience/Practicum I. Required for majors.

SWK 462 Social Policy II

3 hours. This course provides an in-depth analysis of how human needs and values are translated into social policy on both the national and international levels. Special attention is given to the ways in which values and power interests influence the creation of social policy. Examination of selected policies and programs in the areas of income, health, housing, human rights, employment, education, etc. Special attention is given to affirmative action, housing, homelessness, feminization of poverty, and policy analysis and formulation both at the state and federal levels. Implications for generalist social work services will be explored. Prerequisites: SWK 461 Social Policy I and SWK 476 Field Experience/Practicum II. Required for majors.

SWK 475 Field Experience/Practicum I

3 hours (150 practicum hours in the agency). Recommended spring of the junior year. The first course of the field experience/practicum sequence will emphasize micro-practice 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. Prerequisite: SWK 391 Social Work Practice I. Required for majors. This class is open to declared social work majors only.

SWK 476 Field Experience/Practicum II

3 hours (150 practicum hours in the agency). Ideally, SWK 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 SWK 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. Prerequisites: SWK 475 Field Experience/Practicum I, SWK 392 Social Work Practice II. Required for majors. This class is open to declared social work majors only.

SWK 477 Field Experience/Practicum III

3 hours (150 practicum hours in the agency). Ideally, SWK 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 SWK 476 and emphasizing macro-practice 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. Prerequisites: SWK 476 Field Experience/Practicum II, SWK 393 Social Work Practice III, and SOC 390 Research Seminar. Required for majors. This class is open to declared social work majors only.

SWK 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. Prerequisites: SOC 200 Social Issues and SWK 180 Introduction to Social Welfare.

SWK 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. Prerequisite: SWK 392 Social Work Practice II. Required for majors.

SWK 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. For upper-division majors only, by permission.

SOCIOLOGY

SOC 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.

SOC 200 Social Issues

3 hours. A study of the most pressing issues from both a national and international perspective. Focus will be upon urbanization, racial, and ethnic relations, and the natural environment. The structural, historical, and cultural roots of these issues will be discussed.

SOC 230/430 Sociology of Religion

3 hours. A sociological examination to 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 REL 230/430.)

SOC 250 International Conflict and Peace

3 hours. Offered 2002-03. An introduction to peace studies. Useful both as a foundation for other peace studies courses and as a single course to fit in with other majors. Includes exploration of the history of warfare and peace-making, and of nonviolent alternatives to war. (Identical to PSC 250.)

SOC 260 Social Theory

3 hours. A critical study of major social philosophers from Comte to the present. (Identical to PHL 260.) Prerequisite: SOC 150 Principles of Sociology. Prerequisite for PHL 260: SOC 150 Principles of Sociology or PHL 210 Introduction to Philosophy. Required for sociology and social work majors.

SOC 275 Exploratory Agency Experience

3 hours. An opportunity to participate in a variety of activities within a social service agency for the purpose of testing interests and talents. By permission.

SOC 280 Marriage and the Family

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 persons, the importance of the family as a place of nurture, and the gift of marriage. (Identical to FCS 280 and HEA 280.)

SOC 285 Selected Topics

1-3 hours. A seminar dealing with topics of special interest to students and current faculty.

SOC 300 Group Dynamics

3 hours. A study and application of principles and techniques involved in interaction of individuals within various groups. (Identical to PSY 300.) Prerequisite: SOC 150 Principles of Sociology.

SOC 310 Cultural Anthropology

3 hours. A comparative study of world societies and their ways of life. (Identical to INS 310.)

SOC 320 Men and Women in Society

3 hours. Offered 2002-03. 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.

SOC 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. (Identical to PSY 340 and MTH 240.) Prerequisites: SOC 150 Principles of Sociology, and high school algebra. Required for sociology and social work majors.

SOC 350 Social Psychology

3 hours. Offered 2002-03. A study of the theories and methods of social interactions in the development of personal and group behavior. The major aim is to encourage an appreciation of the relationship between personal and situational determinants of social behavior. Prerequisite: SOC 150 Principles of Sociology, or permission of the instructor.

SOC 360 Crime and Deviance

3 hours. Offered 2002-03. An introduction to the study of deviance and criminology, including theoretical and paradigms and research.

SOC 380 Race, Ethnicity, and Class I

3 hours. Offered 2002-03. An interdisciplinary study of the history, problems, and present status, social attitudes, and generalist practice issues involved in working with persons of differing racial, ethnic, and class backgrounds in the United States. Prerequisites: SOC 150 Principles of Sociology, or by permission.

SOC 390 Research Seminar

3 hours. An overview of quantitative and qualitative research methods in the social sciences. Students will design a research project. Prerequisites: SOC 150 Principles of Sociology, SOC 260 Social Theory, and SOC 340 Statistical Procedures. Required for sociology and social work majors.

SOC 410 Juvenile Delinquency

3 hours. Offered 2002-03. A study of the causes and nature of juvenile delinquency, the development of the juvenile court, probation, and other rehabilitative programs. Prerequisite: SOC 150 Principles of Sociology, or permission of the instructor.

SOC 450 Aging in Society

3 hours. Offered 2001-02. A study of the adult aging process in its diverse social dimensions. An exploration of the aging network and its various services and programs will be a secondary focus of study. (Identical to SWK 450.) Prerequisite: SOC 150 Principles of Sociology or permission of the instructor.

SPANISH

SOC 475 Field Experience

6-12 hours. Supervised experiences in private and public social agencies for upper-division majors only. A minimum of six semester hours of SOC 275/475 Field Experience is required of majors. By permission.

SOC 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. Limited to upper-division majors. 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. Prerequisite: SOC 150 Principles of Sociology.

SOC 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. For upper-division majors only, with permission.

SPANISH

Note: Placement testing is generally required of all students prior to registration for their first Spanish course at GFU. Placement tests are typically administered during orientation.

SPN 101, 102 Elementary Spanish

3 hours each semester. 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. Language lab is required. At the end of SPN 102, students should have novice high proficiency as defined by the American Council of the Teaching of Foreign Languages (ACTFL). Placement test required.

SPN 201, 202 Intermediate Spanish

3 hours each semester. A proficiency-centered approach to the study of Spanish, with extensive practice in listening, speaking, reading, and writing. At the end of SPN 202, students should have intermediate mid proficiency as defined by ACTFL. Prerequisite: Placement test or SPN 102 Elementary Spanish.

SPN 275/475 Field Experience

1-10 hours. Supervised experience in a situation demanding extensive use of Spanish. Admission and credit hours determined by instructor.

SPN 285/485 Selected Topics

2-4 hours. Occasional special courses chosen to fit the needs and interests of students and faculty.

SPN 301, 302 Advanced Spanish

3 hours each semester. 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. Prerequisite: SPN 202 Intermediate Spanish, or placement by exam.

SPN 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. Prerequisite: concurrent enrollment in SPN 301 Advanced Spanish, or instructor's consent.

SPN 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. Prerequisite: SPN 302 Advanced Spanish or concurrent enrollment in SPN 302, or instructor's consent.

SPN 375 Field Experience: Study Abroad

2 hours. A journal and a paper are required as part of the study abroad experience. Taken concurrently with SPN 490 Study Abroad. By permission. Required for Spanish majors.

SPN 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: SPN 302 Advanced Spanish, or instructor's consent.

SPN 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: SPN 302 Advanced Spanish, or equivalent.

SPN 480 Senior Capstone

3 hours. This course synthesizes all the student's skills in Spanish. It includes a portfolio of written work, an oral proficiency interview, and a service-learning project. Meetings with professor focus on integration of faith and learning. Preferably taken after semester abroad.

SPN 490 Study Abroad

16 hours minimum. A one-semester overseas experience. Students take university courses while living abroad in Spain or Latin America. Application and junior standing or above required. All programs of study subject to the approval of the Spanish faculty and the director of overseas study. Majors must also enroll in SPN 375 Field Experience: Study Abroad.

SPN 495 Individual Research or Field Work

1-4 hours. Individual study under the guidance of a faculty member, as determined by student needs and faculty availability. Students must have permission of the faculty member to enroll.

THEATRE

THE 120 Introduction to Acting

3 hours. Study of basic principles of acting, including survey of acting theories, performance of scenes, and critical observation and analysis of productions.

THE 125/325A, B, C Theatre Laboratory

1-2 hours. The practical application of theatre techniques in connection with dramatic productions. Open to any student taking part in a production. A denotes acting, B directing, and C technical options. May be repeated for a maximum of 8 hours total.

THE 160/360 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.

THE 165/365 George Fox University Players: Drama Touring Troupe

1 hour each semester. Participation in theatre's traveling ensemble. Entrance to the course by audition and invitation. Students must remain with the troupe the entire year. May be repeated to a maximum of four hours credit.

THE 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.

THE 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 LIT 240.)

THE 255/455 Technical Theatre

3 hours. Offered 2001-02. A study of major areas of technical theatre, with emphasis on set design and construction, lighting design, and sound as applicable to educational, professional, and church drama.

THE 275/475 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, publicity, management, therapy, or any combination thereof. Enrollment by permission of the professor.

THE 285/485 Special Topics

3 hours. Special courses offered occasionally to meet the needs and interests of students, professors, and visiting professors, specifically including technical theatre. Characteristically offered as part of May Term.

THE 320 Advanced Approaches to Acting

3 hours. Offered 2002-03. Problems of characterization, styles, and characteristics of acting in various dramatic media; emphasis on improvisations, instruction in movement and timing, and presentation of scenes of various types. The course requires additional outside-of-class time for rehearsal and performance of selected plays. Prerequisite: permission of the instructor.

THE 340 Theatre as Ministry

3 hours. Offered 2002-03. A consideration of theatre skills as tools for meeting human needs in essentially non-theatrical environments. Focus on drama as a service medium rather than as strictly an entertainment vehicle.

THE 495 Individual Research in the Theatre

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.

WRITING

WRI 095 English Skills

1-3 hours. Offered fall semester as a regular class and other times as individualized study. Focuses on spelling, reading, composition, and research skills necessary for effective college learning.

WRI 110 Freshman Composition

3 hours. A course concentrating on expository writing, with an introduction to basic research methods. Technical and argumentative writing also are introduced.

WRI 200 Understanding Literature

3 hours. An approach to research and writing as a tool for understanding literary texts. Emphasis will be placed on providing the knowledge and practice necessary to produce original literary scholarship, and on acquiring the tools needed to understand the literature you read. Prerequisite: WRI 110 Freshman Composition, or equivalent, or SAT score of 670.

WRI 210 Practical Grammar and Editing

3 hours. This course will help 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. Students may need WRI 095 English Skills as a prerequisite.

WRITING**WRI 230 Introduction to Journalism**

3 hours. A course designed to give fundamental knowledge and experience in reporting, writing, and editing news for the print media. Prerequisite: WRI 110 Freshman Composition, or equivalent, or SAT score of 670.

WRI 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: WRI 110 Freshman Composition, or equivalent, or SAT score of 670.

WRI 285/485 Special Topics

3 hours. Occasional special courses chosen to fit the needs and interests of faculty, visiting professors, and students.

WRI 310 Professional Writing and Desktop Publishing

3 hours. Course centers on the study and practice of writing utilized by communication-writing professionals and others in organizational contexts. Particular emphasis is on desktop publishing and promotional types of writing, including design and production of brochures, newsletters, news releases, memos, position papers, and other promotional pieces. Prerequisite: WRI 110 Freshman Composition, or instructor's permission.

WRI 330 Writing for Publication

3 hours. A workshop approach to the writing of nonfiction articles and other shorter nonfiction forms for periodical magazines. Student-produced material will be submitted to various magazines as part of course expectations. Special attention will be given to Christian periodical markets. Prerequisite: WRI 110 Freshman Composition, or instructor's permission.

WRI 360 Writing Fiction

3 hours. A workshop approach to the writing of fiction. Students will write and prepare for publication original works. Prerequisite: WRI 110 Freshman Composition, or instructor's permission.

WRI 370 Writing Poetry

3 hours. A workshop approach to the writing of poetry. Students will write and prepare for publication original works. Prerequisite: WRI 110 Freshman Composition, or instructor's permission.

WRI 495 Individual Research

1-3 hours. Individualized study related to the student's needs and interests. Open to exceptional students at the discretion of the faculty.

ACADEMIC REGULATIONS

*George Fox
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ACADEMIC SESSIONS AND CREDITS

The academic year at George Fox University is divided into two semesters of 15 weeks, including a four-day examination period, plus orientation and registration. In addition, George Fox sponsors a May Term, a limited summer program for undergraduates. Seminary classes and graduate courses in teacher education, business administration, psychology counseling, and marriage and family therapy are offered during summer semester. Occasional short courses and overseas study experiences also are offered.

The unit of credit is the semester hour, which normally is granted for the satisfactory completion of a course meeting one period (50 minutes) per week for one semester. Credit for all courses is indicated in semester hours. All student requirements, advancements, and classifications are based on these units.

CLASS ATTENDANCE

The responsibility rests with the student to maintain good standards involving satisfactory scholarship. Regular class attendance is expected of each student in all courses. Class work missed because of absence may be made up only in the case of prolonged or confining illness, death of relatives, or similar emergencies. Excuses for a prolonged illness are obtained through the Health and Counseling Center and will be issued only if the student contacted the medical staff during the illness and the illness prevented class attendance for more than three days. Excuses for family emergencies are obtained through the Registrar's Office. Permission for absence from class for participation in cocurricular University activities must be granted by the Academic Affairs Office. Other absence arrangements are between the student and the instructor.

CLASSIFICATION OF STUDENTS

Classification is based upon the student's academic standing in terms of hours and grade points at the beginning of the semester. New students will be classified as regular or provisional students when entrance requirements have been met and official transcripts have been received and evaluated.

Full-Time Students

Full-time students are enrolled for a minimum of 12 hours in a standard semester for the undergraduate program. Generally, only full-time students may represent the University in an official capacity, may hold a major office in an organization, or may live in University housing.

Regular Students

Students who have satisfied entrance requirements and are following a program leading to a degree are called regular students. They are classified as follows:

- Freshmen: Students who have completed fewer than 31 semester hours
- Sophomores: Students who have completed 31 semester hours
- Juniors: Students who have completed 62 semester hours
- Seniors: Students who have completed 93 semester hours

Special Students

This classification includes nondegree students generally enrolled for fewer than 12 semester hours. Any special student wishing to enter a degree program must fulfill regular admissions requirements.

Probation and Provisional Students

A student whose cumulative GPA falls below the level established for academic progress (see "Academic Progress and Eligibility," page 113) will be classified as a probation student. A student placed on probation status may continue to receive financial aid. An applicant who does not meet expectations for admission may be admitted as a provisional student. Provisional undergraduate students are generally required to participate in the George Fox University Academic Success Program (see page 22).

Undergraduate students admitted provisionally may not enroll for more than 14 or 15 hours in the first semester and must include at least one semester of WRI 095 English Skills. At the completion of a term, the Academic Standing Review Committee considers each provisional student's achievement to determine that sufficient progress has been made for continuance.

SERVICES TO DISABLED STUDENTS

Instructional assistance for disabled students is available through the learning laboratory. Where necessary, course requirements are reasonably adjusted based on students' requests and appropriate documentation.

Disabled students needing accommodations should contact the Enrollment Services and Student Life offices well in advance of attendance so that specific attention can be made to assist in providing living arrangements and learning accommodations.

AUDITORS

Subject to instructor 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.

REGISTRATION

All students are expected to register on the days designated on the University calendar and to begin classes on the first day. The registrar annually publishes a class schedule booklet with specifics for registration. In addition, each student should be aware of the regulations that appear under Course Numbering System on page 30.

ACADEMIC ADVISING

New freshmen may have received initial academic advisement by an admission counselor. However, all new freshmen are assigned a freshman advisor as part of the Freshman Seminar Program. This advisor will serve as the academic advisor for the freshman year and will also teach a section of the Freshman Seminar course. Freshmen will select a faculty advisor in their area of interest prior to their sophomore year.

Each returning, transfer, and readmit full-time student is assigned a faculty advisor to provide guidance in planning an academic program. This advisor may be changed by request as a student develops an interest area and forms natural lines of helpfulness and acquaintance. Other teachers and administrators may serve as resource persons in guidance and counseling.

It is the responsibility of the student to become familiar with policies and procedures outlined in the catalog. For example, many upper-level courses are offered in alternate years, but

this should be no problem if there is advance planning and if courses are taken in the proper sequences. Advisors will aid as requested, but students must be responsible for their own programs.

ACADEMIC LOAD

The student's load will be determined in conference with the student's advisor. Sixteen hours per semester is a normal University load. Students who carry fewer hours are adding considerably to the cost of education by extending the time involved to earn their degree. Ordinarily, the first-semester freshman will register for no more than 16 hours. Provisional students will be limited to 14 or 15 hours. No student may enroll for more than 20 hours, except by special permission of the faculty advisor and the registrar.

The following is suggested as a satisfactory relationship between the student's academic load and his or her on- or off-campus work:

Academic Load	Work
15-17 semester hours	Not more than 18 hours
12-14 semester hours	Not more than 24 hours
10-12 semester hours	Not more than 30 hours

FRESHMEN: All freshmen are expected to register for WRI 110 Freshman Composition, in the first year. In addition, all freshmen are expected to register for GED 101, 102 Literature of the Old and New Testaments, physical education, and other general education courses in the first year.

A common rule of thumb is to anticipate three hours of study for each hour of class. Classes that meet more frequently per week than the credit given will demand less outside study.

COURSE ADDITIONS

- After classes begin, a late admission to class must have the approval of the registrar and consent of the instructor involved on a form available in the registrar's Office.
- The last day to add courses or to exercise a pass/no pass option is established in the calendar in this catalog. See inside back cover.

COURSE WITHDRAWALS

- A student wanting to drop or withdraw from a class or from the University must secure the proper form from the Registrar's Office. Without the form, an F is recorded for all courses involved. There is a fee of \$10 for a course withdrawal.
- Withdrawal from a course (with a W) must be completed within the first nine weeks of the semester. Beyond this date, a petition to the vice president for academic affairs is required, and cause (emergency conditions) must be established. See calendar in this catalog.

OFFICIAL WITHDRAW PROCESS

If a student wishes to officially withdraw from all course work at George Fox University either during or at the end of a semester/enrollment period, the student must notify the Registrar's Office directly (verbally or in writing). The student may contact the Registrar's Office in person, by fax, by phone, or on the Internet. An official withdraw begins when a student submits a completed withdraw form to the Registrar's Office. Additional information is available on page 138 in the Compliance with Federal Laws and Regulations portion of the catalog.

THE GRADING SYSTEM

Semester grades are determined by the instructor's evaluation of the student's daily participation in class, performance on periodic tests, work on research papers and class projects, and achievement on final examinations. Grade points are assigned for each hour of credit earned according to the following system:

Letter Grade	Meaning	Points Per Semester Hour
A	Superior	4
A-		3.7
B+		3.3
B	Good	3
B-		2.7
C+		2.3
C	Average	2
C-		1.7
D+		1.3
D	Passing but inferior	1
F	Failing	0
I	Incomplete	0
W	Official withdrawal	0
X	No grade reported by instructor	0
P	Pass (average or above)	0
NP	Not passing	0
L	Long-term	0

Plus (+) and minus (–) grades may be designated by a professor and will be entered on the transcript. Points will be calculated for the student's GPA accordingly.

The grade I is allowed if a student incurs illness or unpreventable and unforeseeable circumstances that make it impossible to meet course requirements on time. Request for an I grade is initiated with — and approved by — the registrar. A contract showing the work to be completed and the completion date is prepared in consultation with the instructor and filed with the registrar. An I not completed by the date indicated or within one semester will be changed to the grade assigned on the incomplete form.

An L grade designates satisfactory progress in a course whose objectives continue for more than one semester. The L will be replaced by either a P grade or a point-receiving grade. This is not an incomplete or I grade.

An X grade indicates the instructor did not report a grade to the Registrar's Office.

If a student repeats a particular course, the University counts the course credits only once toward graduation requirements. Only the second grade will count in the cumulative GPA, but the original grade will remain on the student's transcript.

The Dean's List

Those who achieve and maintain a 3.5 grade point average or above on 12 or more hours of graded work completed by the end of the semester are eligible for the dean's list.

Pass/No Pass Policy

A student who has a cumulative GPA of 2.00 or better and who has completed 62 semester hours may choose to take one course per semester on a pass/no pass basis from elective courses outside his or her major and the University's general education requirements. An application form must be filed with the registrar no later than the published deadline for exercising the pass/no pass option.

The teacher submits a regular grade to the registrar, who converts the regular grade of C or above into grade below C becomes a no pass, and the course must be repeated on a satisfactory level to receive credit.

Courses offered only on a pass/no pass basis are field experience (e.g., 275/475); WRI 095 English Skills; THE 165/365 George Fox University Players; EDU 375/475 Student Teaching I, II; and Juniors Abroad. (GED 130 Freshman Seminar is pass/fail.)

Honors Colloquium (GED 271, 272, 371, 372) will be graded pass/no pass. All other courses in the University receive grades.

ACADEMIC PROGRESS AND ELIGIBILITY

A student on regular, warning, or provisional status is considered to be making reasonable academic progress. A student's semester grades, with a semester GPA and a new cumulative GPA, are posted on the grade report given to the student within two weeks following the close of each semester.

The GPA is based on George Fox University credits only.

To be eligible for student government positions, a student must maintain a GPA of 2.25 or better. To be eligible to participate in intercollegiate athletics, a student must be in academic good standing and maintain satisfactory academic progress.

A student is on probation when his or her cumulative GPA falls below the following standard: 1-15 hours, 1.7; 16-31 hours, 1.8; 32-47 hours, 1.9; and 2.0 thereafter. The student is given one semester of probation to achieve above the standard. Beginning freshmen not admitted provisionally may be allowed two or three semesters of academic experience before suspension is administered.

Whenever the GPA for a given semester is below 2.00, but the cumulative GPA is at or above the required minimum, the student receives an academic warning. This warning is not a part of the student's permanent record, but it does alert the student of potential difficulties. The student is encouraged to contact the academic advisor, who will assist in the development of improved study plans and encourage better use of reading and library skills.

In addition to satisfactory grades, for financial aid purposes the student also must show that a degree program will be completed in six years or less given full-time attendance. This means that in addition to enrolling for at least 12 credits each semester, the student must also successfully complete a minimum number of credits each semester.

A student not achieving reasonable progress, as determined by the Academic Standing Review Committee, may be given academic suspension. After one or more semesters have elapsed, the student may apply for readmission, and if admitted, reenter provisionally. The Academic Standing Review Committee also may recommend academic dismissal. Students who are dismissed may not apply for readmission to George Fox University.

The University may suspend or dismiss any student who fails to earn a GPA of at least 1.00 during a semester, regardless of classification or number of hours completed, or any students who become so indifferent that they no longer benefit themselves or the University community.

Academic Good Standing

To remain in good academic standing, a student must not be on academic probation and must have successfully completed at least 24 semester credits during the two most recent semesters. Students must be in good standing to be eligible to participate in intercollegiate athletics sponsored by the University. See Academic Progress and Eligibility section for warning, suspension, and probation policies.

Satisfactory Academic Progress

Satisfactory academic progress toward a degree as a full-time student is defined as completion at a rate not to exceed 150 percent of the published length of the program while maintaining a cumulative GPA of 1.7 (1-15 hours), 1.8 (16-31 hours), 1.9 (32-47 hours), and 2.0 thereafter.

Academic Appeals

Academic actions can be appealed to appropriate University authorities and an Academic Appeals Board. Appeals are taken to be good faith actions that request reexamination of academic decisions. All appeals must be made within limited time frames depending upon the action being appealed. Additional information is available in the Academic Affairs Office.

GRADUATION REQUIREMENTS

A student wishing to receive a bachelor of arts or a bachelor of science degree must meet the following requirements:

1. Accumulate at least 126 semester hours with a minimum cumulative and major GPA of 2.00. 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- in upper-division courses;
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); and
8. Pay in full all accounts at the Student Accounts Office.

In order to participate in commencement and baccalaureate ceremonies, a student must have completed all degree requirements. Exceptions include a student registered for a postcommencement 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.

FINAL EXAMINATIONS — ACADEMIC HONESTY**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 major and general education requirements for each degree;
3. Be in attendance the last two semesters or 30 hours preceding the awarding of the "second" degree; and
4. Pay an additional \$20 graduation fee if participating in one ceremony; otherwise, pay an additional \$50 graduation fee for the "second" degree.

Graduation Honors

Summa cum laude is awarded to students with a cumulative GPA of 3.90-4.00, magna cum laude to those with a 3.70-3.89 GPA, and cum laude to those with a 3.50-3.69 GPA. Transfer students must have completed at least 60 hours at George Fox University to be eligible for honors at graduation.

Honors in the commencement program are computed on grades through the fall semester for spring graduation, and through the previous spring semester for fall graduation. Honors on the final record and transcript are based on all grades received at George Fox University.

FINAL EXAMINATIONS

Students are required to take final examinations as specified in course syllabi. The final examination schedule covers the last four days of each semester. The schedule is printed in the class schedule book each year. Finals for evening classes take place during the final class period of the semester. The entire last week of each semester will be kept free of institutionally sanctioned extracurricular activities, with the exception of prescheduled intercollegiate athletic events. Students wishing to apply for change of final exam time must apply by the end of the 10th week of classes.

ACADEMIC HONESTY

It is assumed that students at George Fox University will endeavor to be honest and of high integrity in all matters pertaining to their college life. A lack of respect and integrity is evidenced by cheating, fabricating, plagiarizing, misuse of keys and facilities, removing books and other property not one's own, defacing and altering, and the disruption of classes.

Cheating is defined as "intentionally using or attempting to use unauthorized materials, information, or study aids in any academic exercise." It is assumed that whatever is submitted by a student is the work of that student and is new work for that course. Fabrication is "intentional and unauthorized falsification or invention of any information or citation in an academic exercise or form." Plagiarism is "intentionally or knowingly representing the words or ideas of another as one's own in any academic exercise." One who facilitates any of the above is equally responsible with the primary violator.

Penalties may include restitution, an F on an individual paper or exam, loss of campus position or employment, an F on a course, disciplinary probation, removal from extracurricular or athletic activities, and suspension.

ADMISSION

*George Fox
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BASIS OF UNDERGRADUATE ADMISSION

The University admits applicants who evidence academic interests and ability moral character and 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 reserves the right of admission or readmission of any student at its discretion.

The University does not discriminate on the basis of age, sex, race, color, national origin, or handicap in its educational programs or activities.

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, 2; science, 2; mathematics, 2; foreign language, 2; and health and physical education, 1.

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

Procedures

1. Write to the Office of Undergraduate Admission, George Fox University, 414 N. Meridian, Box 6089, Newberg, Oregon 97132, for information and admission forms.
2. Complete the Application for Admission and return it to the Admission Office. Include a nonrefundable application fee of \$40. The priority application date is February 1 for fall semester and November 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 Admission 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. 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 Admission Committee's decision.

6. If applying for financial aid, a Free Application for Federal Student Aid (FAFSA) must be submitted to the appropriate financial aid service as soon after January 1 as possible. The GFU code for FAFSA is 003194. Forms may be obtained from high school counseling offices or by writing to the Financial Aid Office 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. By May 1, a tuition deposit of \$300 should be submitted by each new full-time 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. The spring semester tuition deposit deadline is December 1 and is not refundable after that date.

8. A health history form is sent to each student who has paid a tuition deposit. This must be completed personally and sent to the address on the form. Registration will not be considered complete without the questionnaire. Immunizations must be documented as indicated on the Certificate of Immunization Status form.

ADMISSION PROCEDURES AND POLICIES FOR TRANSFER STUDENTS

Procedures

1. Write to the Office of Undergraduate Admission, George Fox University, 414 N. Meridian, Box 6089, Newberg, Oregon 97132, for information and admission forms.
2. Complete the Application for Admission and return it to the Admission Office. Include a nonrefundable application fee of \$40.
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.
5. Have the two recommendation forms in the application packet completed and sent to the Admission 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 Admission Committee's decision.

6. If applying for financial aid, a Free Application for Federal Student Aid (FAFSA) must be submitted to the appropriate financial aid service as soon after January 1 as possible. The GFU code for FAFSA is 003194. Forms may be obtained from your college financial aid office or by writing to the Financial Aid Office 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 the Financial Aid Office at George Fox University. The Financial Aid Transcript must be completed whether or not aid was received at these institutions.
8. By May 1, a tuition deposit of \$300 must be submitted by each new full-time student. This deposit reserves housing and a place in the registration sequence. Until May 1, it is refundable by written request. The spring semester tuition deposit deadline is December 1 and is not refundable after that date.
9. A health history form is sent to each student who has paid a tuition deposit. This must be completed personally and sent to the address on the form. Registration will not be considered complete without the questionnaire. Immunizations must be documented as indicated on the Certificate of Immunization Status form.

Policies

Students who have completed work at other educational institutions may be entitled to advanced standing 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. Each course from community college programs, except for courses completed for the Oregon Transfer Associate of Arts (OTAA) degree, is evaluated by the registrar for application to George Fox University requirements.
3. The Oregon Transfer Associate of Arts degree will satisfy all general education requirements except Bible and religion provided students complete 93 quarter hours (62 semester hours) of transferable credit graded C- or better. The OTAA 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.

Any evaluation of transfer credit is to be considered tentative

until the student has completed one semester of no less than 12 hours.

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.

HOMESCHOOL STUDENTS

Students who attended homeschool during their high school years may be admitted to the University by following the admission procedures for freshmen.

INTERNATIONAL STUDENTS

George Fox University is authorized under federal law to enroll nonimmigrant alien students. Prospective students who are not United States 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 by posting a score on the paper-based Test of English as a Foreign Language (TOEFL) of at least 500 or on the computer-based TOEFL of at least 173 and a score on the Test of Written English of at least 4. Students with a score between 500 and 550 (paper-based TOEFL) or between 173 and 213 (computer-based TOEFL) will be provided a one-hour tutorial during their first semester at George Fox University to improve their ability to write in English and to develop more effective study strategies.

Students not showing proficiency at the above-described levels may apply for admission to the George Fox University English Language Institute (see page 46).

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 Admission Office. If two or more years have elapsed, he or she must meet any new or revised graduation requirements and may be asked to go through regular admission procedures. 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 December 1 and is not refundable after that date.

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.

PART-TIME STUDENTS

Individuals who would like to take less than a full-time load (1-11 hours) may apply as a part-time student. Application forms and counseling regarding courses are available in the Registrar's Office. Applicants are required to pay the nonrefundable \$40 application fee, and tuition is based on the current per-credit-hour rate.

HIGH SCHOOL NONGRADUATES

An adult whose high school preparation is incomplete may be admitted on the basis of the General Education Development (GED) Test, provided the average standard score is at least 53 with no one score below 48. A high school or two-year college counseling center can supply details.

AUDITORS

Subject to the approval of instructor and the Registrar's Office, it is possible to audit classes on a space-available basis. Auditors pay a reduced tuition fee, generally one-half regular tuition. Students do not complete course requirements, and no college credit is earned.

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 \$20 per semester is required, plus a fee for materials if such are essential to the course. A small charge may be necessary for professional studies courses in which the primary enrollment is older adults. 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 available in the Registrar's Office. This privilege does not apply to enrollment in the management and organizational leadership, management of human resources, or management and business information systems programs, or in graduate courses.

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 Admission 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 choice of courses.
3. Only one course of no more than four 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 \$40 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 page 116. Since an early admission participant has already paid an application fee, an additional fee will not be required.

ADVANCED PLACEMENT — HONORS PROGRAM

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 Exemptions and Waivers, page 30; Course Challenge Programs, page 18; and Intensified Studies Program, page 23.

CAMPUS VISITATION

Students interested in enrolling at George Fox University are encouraged to visit the campus, preferably when classes are in session. A visit provides an opportunity to observe classes, see the campus facilities, and talk with students and professors. It also will give University personnel an opportunity to get to know the student better. When possible, visits should be arranged five days in advance through the Admission Office, which is open on weekdays, 8:00 a.m. to 5:00 p.m., and on Saturdays, 10:00 a.m. to 1:00 p.m.

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 \$15 a course.

If the spouse would like credit for the class at a later date, the prevailing tuition charge for the courses at the time they were taken would need to be paid.

FINANCES

*George Fox
University*

COSTS — TUITION, FEES, AND EXPENSES

George Fox University maintains high educational standards at the lowest possible cost. The individual student pays about 74 percent of the actual cost of education. The remainder 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.

COSTS

Estimated cash outlay for typical entering undergraduate student, 2001-02 (two semesters)

	Fall Semester	Spring Semester	Total
Tuition (12 to 18 hours)	\$9,000	\$9,000	\$18,000
Student Body Fee	100	100	200
General Usage Fee	13	12	25
Health Counseling Fee	50	50	100
Continuing Deposit	100	—	100
Total	\$9,263	\$9,162	\$18,425
Board and Room (Complete food service and residence hall room, double occupancy)	\$2,885	\$2,885	\$5,770
Total, resident students	\$12,148	\$12,047	\$24,195

These costs do not include travel, books, and personal expenses, which will vary widely among students. Costs of books can be expected to average about \$200 to \$300 per semester, depending on courses taken.

TUITION, FEES, AND EXPENSES (2001-02)

Tuition — Undergraduate

1 to 11 ½ credit hours per semester, per hour.....	\$557
12 to 18 credit hours, per semester.....	\$9,000
More than 18 credit hours per semester, for each additional hour.....	\$495
May Term, per credit hour.....	\$279
Early admission, per credit hour.....	\$40
Older adults (62 and older), service fee per semester.....	\$20
ESL students (20-hr. maximum), per semester.....	\$6,370
Audit (per credit hour).....	\$279

Student Body Membership

Students registered for 12 hours or more each semester.....	\$100 per semester
Students registered for 5-11 ½ hours each semester.....	\$50 per semester

This fee covers the cost of student activities, class dues, social events, the Student Union Building, and subscriptions to Associated Student Community publications.

General Usage Fee

All students registered for 5 hours or more each semester.....	\$13 per semester
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Health/Counseling Fee

Health/counseling fee, per semester.....	\$50
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This fee provides unlimited free access to the physicians, nurse, and counselors in the Health and Counseling Center.

Deposits and Admission Fees for 2001-02

Application Fee (nonrefundable, submitted with application for admission).....	\$40
Tuition Deposit (required of all new full-time students and nonrefundable after May 1, this deposit ensures housing priority and registration privileges based on date of receipt; used as credit on first-semester bill).....	\$300
Continuing Deposit (required of all full-time students; charged on first-semester bill and held on deposit until departure).....	\$100

Registration, Records, and Graduation Fees

Late Registration Fee (applicable if registration is not made prior to the first day of classes each semester).....	\$25
Change of Registration Fee, per change form submitted after the last day to change registration. There is generallyno refund of tuition after the last day to change registration (add/drop period).....	\$10
Examination Fee, for credit by examination, challenge, or exemption from specific requirement per course.....	\$40
Graduation Fee.....	\$105
Official Transcripts, per copy (student account must be paid in full).....	\$3
Unofficial Transcript.....	\$1

SCHEDULE OF REQUIRED DEPOSITS

Rushed Official Transcript.....	\$10
Placement File Setup Fee.....	\$10
Placement File, per set.....	\$7
Additional sets with same order.....	\$3

Departmental Fees

Chemistry/Biology Fees.....	\$10-160
Communication/video production courses.....	\$10-50
Off-campus physical education activity, per semester*.....	\$10-370
Private music lessons, per semester, per credit hour (includes one half-hour lesson per week and use of practice room).....	\$215

Other: Several classes require an extra fee to cover special facilities, equipment, transportation, etc., ranging from \$10 to \$100 per class, although some specific courses may be higher. Class fees are printed in the course schedule book.

*Students pay a fee of \$10-\$370 to cover costs of facilities, equipment, and transportation for any physical education course conducted off campus, such as swimming, bowling, golf, skiing, and canoeing. Personal rackets are required for tennis.

Late Payment Fees

Account Service Charge: Open accounts (other than approved installment plans) are subject to a one-percent-per-month service charge on the unpaid balance.

Returned check fee, per check.....	\$25
Billing service charge (for late payment of fines).....	\$5

Major Medical Insurance

George Fox University requires full-time students to carry medical insurance and provide proof of coverage annually. Students who do not document coverage are generally required to enroll in the University's Student Major Medical Insurance Plan. Information on this plan can be obtained from the Enrollment Services Offices or the Health and Counseling Center.

The premium is subject to change each year by the underwriter but is about \$600 for 12 months, payable on the first-semester billing. Coverage is available for students only and is not available for spouse or dependents.

Parking Fees/Fines

Student vehicles must be registered with the Security Office, and a non-refundable parking fee must be paid.

Per semester.....	\$30
Annual.....	\$50
Parking violations (each).....	\$15-50

Room and Board

Room and board are furnished to resident students as indicated in the following. Residence hall rooms are double occupancy; two-room suites are occupied by four students; houses and apartments (for upperclassmen) house from two to 12 persons. There are four single-occupancy residence hall rooms (two for men, two for women). An additional charge of \$200 per semester will be charged for those rooms.

All freshman and sophomore students must participate in the full continuous dining program. Juniors may choose between continuous dining or 14 meals per week. Seniors may choose between continuous dining, 14 meals per week, seven meals per week (plus \$175 flex spending per year), or full exemption.

Breakdown of Costs: Room and Board

	Semester	Year
Room:		
Residence hall*	\$1,470	\$2,940
Suites*	1,520	3,040
Apartments and houses		
with phone	1,470	3,060
without phone	1,445	2,890
Full Board	\$1,415	\$2,830
14 meals		\$2,340
7 meals		\$1,580

A limited amount of housing is available for married students. Information may be obtained from the Student Life Office.

Additional board options at lower costs are available for juniors and seniors.

*Telephone charge included

SCHEDULE OF REQUIRED DEPOSITS

New full-time students are generally required to pay a \$300 tuition deposit by May 1. This deposit will be applied against the first-semester tuition and is nonrefundable after May 1.

All new full-time students are required to pay a continuing deposit of \$100 at registration. This deposit is designed to cover student-caused damage, fines, etc., and will be held 30 to 60 days past the end of the semester in which the student graduates or withdraws, pending receipt by the Student Accounts Office of any fines, penalties, or other charges. If there is an outstanding balance on the student's account, the deposit refund will be applied to that balance.

In the case of cancellation of preregistration, the \$100 continuing deposit is forfeited unless the student notifies the Registrar's Office by July 15; for spring semester, notification must be made prior to January 1.

Housing Deposit for Returning Students

1. All students, except graduating seniors, who will live in University-owned housing during the upcoming year will be required to pay a \$100 housing deposit to secure their housing assignment.

2. This deposit will be payable to the Student Accounts Office by the first week in March. (Students will be notified of the date by the Student Life Office.)

3. The deposit is refundable if notice is made by July 15 for fall semester and prior to January 1 for spring semester. In the case that a student returns to George Fox in the fall and occupies University-owned housing, the deposit will be credited toward his or her account for the fall semester. In the case that a student does not return to George Fox and/or does not occupy University-owned housing, the deposit will be forfeited.

At the time the housing deposit is paid, students must be current on their payment arrangements to be eligible to participate in housing sign-ups for the following year. Please see the Student Accounts Office if you have questions about your account.

FINANCIAL ARRANGEMENTS

All charges made by the University are due prior to the beginning of each semester or may be made on an installment basis by either annual or semester plans through Tuition Management Systems (TMS). Students receiving scholarships, grants or loans must complete all necessary arrangements well in advance of registration. Students who are securing a loan from financial institutions or agencies (e.g., a federally insured bank loan) that may still be pending at the time of registration must have a letter of commitment from the lender acceptable to the University. Service charges will be made on unpaid accounts even though financial aid and loans are pending, so the application process should be started early.

Earnings from Work-Study jobs are paid directly to the student. These jobs are not guaranteed, therefore the earnings cannot be credited to a student account in advance. Interest may be waived on accounts being paid from Work-Study earnings if that amount is the only balance remaining.

Payment for May Term and summer tuition is due in full when billed.

Students who choose to reduce their course load, and who do not completely withdraw from the University, will generally not receive a refund of tuition, course fees, and other associated fees unless the changes takes place prior to the last day to change registration, also known as the end of the add/drop period, which is published in the University's academic calendar and class schedule book.

Students may be asked to leave at any time during a semester if appropriate arrangements have not been made at the beginning of the semester or if the student becomes delinquent on installment payments.

Restrictions

The University will withhold transcript of records and diploma until all University bills have been paid. Students will not be permitted to attend for a new semester, including May Term, Juniors Abroad, and summer field experience, until all bills are paid for the previous session.

The Return of the Title IV and Institutional Financial Aid Funds and the George Fox University Removal of Institutional Charges Policy

These policies generally apply to students who withdraw entirely from George Fox University or take an approved leave of absence, or to students who are asked to withdraw for academic, disciplinary, or financial reasons.

Note: Both The Return of the Title IV and Institutional Financial Aid Funds Policy and the George Fox University Removal of Institutional Charges Policy must be considered when determining the financial impact of withdrawing completely from the University

◆ Explanation of Terms

The term "Title IV Funds" refers to federal financial aid programs authorized under the Higher Education Act of 1965 (as amended). At George Fox University, these programs include unsubsidized Stafford Loans, subsidized Stafford Loans, Perkins Loans, PLUS Loans, Pell Grants, and SEOG. Federal Work-Study wages are not included.

The term "Institutional Financial Aid Funds" refers to George Fox University financial aid dollars, including grants and scholarships.

The "Return" of funds, either Title IV or institutional, refers to the amounts removed from the student account.

The term "Refund" refers to the reversal of amounts charged on the student account.

The "withdraw date" is the date established by the Office of the Registrar in accordance with the Official Withdraw Process. (See Official Withdraw Process, page 112.)

The "period" used in calculating the return of Title IV and institutional funds is either the payment period or the enrollment period, depending on the academic program involved. Both periods are based on calendar days. They include weekends but exclude scheduled breaks of five days or more. The period used to calculate the removal of institutional charges is always the enrollment period.

The "enrollment period" is defined as the period in which a student is enrolled.

The "payment period" is defined as the loan payment period for which the student is eligible. The payment period is used only when calculating the return of funds for academic programs that have two loan disbursement periods within one academic period, such as the Department of Professional Studies MOL and MBIS programs.

A "Post Withdrawal Disbursement" is a financial aid or loan disbursement that the student was eligible for prior to withdrawal, but had not yet received.

◆ Return of Title IV and Institutional Funds

- Federal law requires that all Title IV funds disbursed to the school be included in the return calculation, including funds in excess of the student account balance that the institution has forwarded to the student and eligible funds pending disbursement. (See Postwithdrawal Disbursement.)
- The percentage of Title IV and institutional funds returned is based on the number of calendar days that the student was enrolled, including the established withdraw date, and the tuition charged.
- After 60 percent of the period has transpired, there is no return.

To estimate the amount that will be returned to either federal or institutional financial aid programs:

- (a) Divide the days transpired by the total number of days in the period. (See Withdraw Date and Refund Calculation Period above.)
- (b) Convert this number to a percentage by moving the decimal point two places to the right and round to one decimal place. This generally equals the percentage of aid retained.
- (c) Subtract the percentage of aid retained from 100 percent. This generally is the percentage that will be returned.

(Example: If a student's withdraw date is established as the 21st day of a period that is 111 days long, 21 days would be divided by 111 days to equal .1892, which converts to 18.9 percent. This is the amount of aid **retained**. 100 percent minus 18.9 percent equals 81.1 percent of aid that must be **returned**.)

A copy of the worksheet used for this calculation can be requested from the George Fox University Student Accounts Office.

In accordance with federal regulations, the return of Title IV funds is made in the following order:

- Unsubsidized Stafford Loans
- Subsidized Stafford Loans
- Perkins Loans, PLUS Loans
- Pell Grants
- SEOG
- Other Title IV programs

The order that institutional financial aid is returned is at the discretion of the Financial Aid Office.

◆ Return of Title IV Funds by the Student

When the Return of Title IV Funds calculation results in the student (or parent for a PLUS Loan) having a repayment responsibility, the George Fox University Student Accounts Office will notify the student of his or her responsibility.

◆ Postwithdrawal Disbursement

When a Postwithdrawal Disbursement is available, the institution may, without the student's or parent's permission, credit the late disbursement to the student account to cover allowable institutional charges. When loans are applied to the student's account, the student is notified of the disbursement. If the student (or parent for a PLUS Loan) wishes to cancel all or a portion of a loan, they must do so, in writing, to the Financial Aid Office within two weeks of receiving notice of the disbursement.

When the Postwithdrawal Disbursement results in excess funds being available to the student, or when pending disbursements are needed to cover minor non-institutional charges:

- Authorization from the borrower is required.
- If the borrower has not signed an authorization, the institution will request the needed authorization either electronically or in writing.
- The borrower will be advised that no late disbursement will be made for these purposes unless authorization is received within 14 days of the date the institution sent the notification.

◆ Removal of Institutional Charges Calculation

When a student withdraws completely from the University refunds of tuition, excluding May Term, will generally be calculated as follows:

- A student whose withdraw date is day one of the enrollment period generally receives a 90 percent adjustment.
- A student whose withdraw date is after day one but within week one generally receives a 75 percent adjustment.
- A student whose withdraw date is within week two generally receives a 50 percent adjustment.
- A student whose withdraw date is within week three generally receives a 25 percent adjustment.
- A student whose withdraw date is within week four, or later, generally receives no adjustment.

Adjustments of May Term tuition will be calculated as follows:

- A student who withdraws prior to day one of the enrollment period generally receives a full adjustment.
- A student who withdraws on day one generally receives a 50 percent adjustment, regardless of attendance.
- A student who withdraws on day two or later generally will not receive any adjustment.

Adjustments of room and board will generally be calculated as follows:

- Students withdrawing from housing during the first week in the enrollment period will receive a prorated adjustment. After the first week there is no adjustment.
- Students withdrawing from the meal plan during the first two weeks in the enrollment period will receive a prorated adjustment. After the second week there is no adjustment.

FINANCIAL AID

After the second week of the enrollment period, there is generally no adjustment of Health Insurance, Student Body Fees, Health Counseling Fees, Activity Fees, Parking Permit Fees, and course fees. (Removal of course fees will be considered if the student submits faculty approval showing that the institution did not incur costs as a result of the student's anticipated participation in activities and/or that supplies were not issued.)

Generally, there is no adjustment of Ministry Assessment Fees, Graduate Education Student Body Fees, Add/Drop Fees, and interest.

Note: No transcripts will be released until the student's account is paid in full. This includes current charges, balances that are the result of financial aid funds returned, fines that may be assessed after the student leaves, and computer buy-out fees.

These policies are in compliance with the Higher Education Reauthorization Act. For refund examples, please stop by the Student Accounts Office or call 503-554-2290.

FINANCIAL AID

Basis of Student Aid

Each family should expect to make every reasonable financial adjustment to provide as much support as possible for college expenses. Financial aid to supplement the family's efforts will be offered under three basic conditions:

(1) in consideration of the student's/family's financial need as demonstrated by a uniform method of analysis; (2) in consideration of a student's academic potential, personal interests and abilities, and promise for future leadership; and (3) availability of University funds.

With few exceptions, students must be enrolled full time (at least 12 credits per semester) to receive financial aid. They must also meet eligibility requirements of the programs from which they receive assistance. Such requirements include maintaining satisfactory academic progress toward a degree, maintaining a minimum GPA, having financial need, and other specific conditions of federal, state or University regulations.

Awards Based Upon Financial Need

Financial need is determined by a uniform method of analysis of information the family provides on the Free Application for Federal Student Aid (FAFSA). The need analysis helps the University determine the contribution the family is expected to make. The difference between this family expectation and the cost of attendance at the University is the "need" that financial aid attempts to fill.

Financial assistance awarded by George Fox University takes the form of scholarships, grants, loans, and employment. "Need-based" financial assistance comes from the state or federal government and from the University. Students awarded federal and state aid are subject to the laws regulating those programs. For instance, all federal and state assistance requires signed statements from the recipient attesting that the funds will be used only for educational purposes, that the student is not in default on any government loan nor owing a refund on any government grant, and that the student has registered with the Selective Service or that he or she is not required to do so.

The total financial aid package — including all grants, scholarships, and loans — may not exceed the amount of need when federal program funds are included.

Virtually every student in the University who can demonstrate need is awarded funds (grants, loans, and/or employment) to assist in meeting the cost of attendance.

Awards Based on Academic Potential, Personal Interests and Qualities, and Promise of Future Leadership

Many awards for potential academic and other performance abilities, and for personal qualities and affiliations, may be given without considering the financial need of recipients. Many scholarships are available to students who have proven ability in college. Others, such as the honors scholarships, are awarded to both new and returning students.

Scholarships, Grants, Loans, and Student Employment

◆ Federal and State Grant Programs

The Federal Pell Grant and the Oregon State Need Grant programs award funds to students on the basis of eligibility standards set by federal and state regulations. The Federal Supplemental Educational Opportunity Grant is funded by the federal government and awarded to students according to eligibility standards set by both the government and the University. Funds from these programs are available only to students who can demonstrate relatively high need.

◆ University Grants

The University awards funds to needy students to supplement funds provided by the federal and state programs. If eligible on the basis of financial need, a student with insufficient state or federal funds may receive a George Fox University grant.

◆ Merit Scholarships

Honors scholarships are granted each academic year to a limited number of qualified students. Financial need is not a criterion for any of the honors scholarships.

The **Presidential Scholarship** is a \$10,000 renewable scholarship awarded to freshmen who are either National Merit semifinalists or students with a predicted grade point average (PGPA) of 4.0 or above. The PGPA is based on the high school GPA and SAT or ACT scores. Continuation of the award is based on a minimum cumulative GPA of 3.40 and an annual interview with the Scholarship Committee.

The **Benson Scholarship** is an \$8,000 maximum renewable scholarship first provided in 1973 through a trust from Mr. and Mrs. Thomas Benson. Recipients are incoming freshmen who have a predicted GPA of 3.75 or above. Continuation in the program requires a cumulative GPA of 3.40.

The **Duke Scholarship** is awarded to academically talented students who also have outstanding leadership capabilities. The scholarship of \$7,000 maximum is given to students with a predicted GPA of at least 3.50 based upon high school GPA and SAT or ACT scores. Continuation requires a cumulative 3.20 GPA.

The **Elizabeth Carey Minas Scholarship** is awarded to academically talented returning students who received the Ed and Linda Stevens Scholarship in the previous year. The annual scholarship is up to \$5,000 maximum. Continuation requires a cumulative 3.20 GPA.

The **Ed and Linda Stevens Scholarship** is for incoming students who have a predicted GPA of 3.25 or above. The annual scholarship is \$5,000. Continuation requires a 3.20 GPA.

The Honors on Entrance Scholarship

is awarded to incoming freshman students with a predicted GPA of at least a 3.0. The annual scholarship is \$2,500. Continuation generally requires a 3.0 cumulative GPA.

◆ **Competitive Scholarships**

The **Jim and Lila Miller Award** is for students with a minimum GPA of 3.0 who have demonstrated exceptional characteristics through cocurricular activities, student government, or in the local church or community. The scholarship may be of varying amounts. Continuation of the Miller Award generally requires a cumulative GPA of 3.0.

The **George Fox University Science Scholarship** is a \$3,500 maximum renewable scholarship for science majors who have a predicted GPA of 3.5 out of high school. Candidates are recommended by the Admission Office and approved by the science department. The application process includes SAT scores, seven-semester transcript, and a letter of recommendation from a high school science teacher. Continuation requires a 3.4 GPA.

◆ **Drama, Music, and Forensics Scholarships**

A limited number of awards are made each year to talented students who show promise of achievement in drama, music, and forensics. To be eligible, applicants must have satisfactory academic records and unusual proficiency in one or more of the above fields. Auditions or personal interviews usually are required of applicants.

◆ **Multicultural Awards**

Multicultural awards are offered to qualified students who meet entrance academic standards and maintain necessary cumulative GPA requirements. The Multicultural Student Achievement Award of \$2,500 is available to students with an entrance GPA of 3.4. Retention of this award requires a cumulative George Fox GPA of 3.4. The Multicultural Student Award of \$1,000 is available to students with an entrance GPA of 3.0-3.39. Retention of this award requires a cumulative George Fox GPA of 3.2.

◆ **Special Grants**

A limited number of grants are offered to encourage and enable special groups of students to attend George Fox University. Grants of \$1,500 each are awarded to dependents of active ministers and missionaries. Any entering freshman student from California with a high school GPA of at least 3.0 may receive a grant of \$1,400. Any student from a Friends or Evangelical Church of North America church with a high school GPA of 3.0 or a combined SAT score above 1000 may receive a grant of \$1,400. These grants are based upon financial need. Stipends may be reduced somewhat for students who are eligible for more than one of these grants. Continuation of the California Student Grant or the Friends/ECNA Student Grant requires a cumulative college GPA of at least 3.0.

◆ **Church/University Fellowship Awards**

The University has established Church/University Fellowship Awards to assist churches in encouraging their young people to attend George Fox University. The church may make a gift of any amount to the University for credit to a specific student's account. The University will then match up to \$500 (\$600 for Friends students) of the gift for any full-time students, and up to \$600 for juniors and seniors who are preparing for Christian service. Gifts may be made for any number of students from a church. In addition, there is a George Fox University/Northwest Yearly Meeting partnership that may provide additional assistance for students from those churches in the Yearly Meeting that participate in the Church/University Match Program. The gifts must be an official act of the church rather than from individual church members. The deadline is October 1. Applications will be supplied upon request.

FINANCIAL AID

◆ Family Discounts

Tuition discounts equal to approximately five percent of tuition will be granted to second and additional family members when more than one member of the same family is enrolled at the University at the same time.

◆ Special Scholarships and Grants

A portion of the University's endowment fund is designated for the scholarship program. The scholarships and grants listed below are funded by endowments provided by friends of the University. Except as noted, these scholarships are awarded to returning students only. Amounts may vary from year to year. Financial need is generally a consideration for the following awards:

Financial Aid Office

The **J. Caroline Ankeny Memorial Scholarships** totaling \$3,100 are awarded annually to international students from India, Africa, Bolivia, or Peru. Need is considered.

The **Austin Scholarship** is intended for academically superior students from Newberg. The \$1,750 award is renewable if the student is active in college programs and leadership and maintains a 3.0 GPA. Financial need is not required.

The **Richard H. Beebe Memorial Scholarship** provides \$950 for a graduate of Crow High School (Eugene, Oregon). Students from Eugene Friends Church may also be considered. Recipients must have a 2.5 GPA. Financial need is considered.

The **Wilbert and Esther Brandenburg Memorial Scholarship**, with a stipend of \$600, is for a student who regularly attends a Newberg area Friends Church and has a minimum 3.0 GPA.

The **David P. Earhart Memorial Scholarships** range from \$100 to \$600. Students must be members of, or regularly attend, a Friends church (or hold pacifist beliefs similar to the Quakers) and be participating in the Church/University Award Program.

The **Holman Scholarship Endowment Fund** totaling \$25,800 is intended for students who are interested in natural sciences, religion, or philosophy. Priority is given to students of bloodline descent of George Holman.

The **Esther M. Klages Scholarships** provide funds to deserving students, with preference to international students who intend to return to their native countries to serve in Christian ministries. Renewable for one year.

The **Mildred Lancaster/Denair Friends Church Scholarship** is given annually to assist a student who is a member or regular attendee of Denair Friends Church, or any northern California Friends church. The annual stipend is \$1,500.

The **McGrath Family Scholarship** of \$3,600 is awarded annually to an incoming Newberg High School graduate. Financial need is not required.

The **McPhee Memorial Grant** of \$1,000 is awarded annually to a dependent of missionaries actively serving the church in a country other than the United States. Financial need is required.

The **Mock Family Scholarship** of \$1,150 is awarded annually to a student from Banks School District #13. Financial need may be considered.

The **Fred C. Neumann Memorial Scholarship** of \$1,050 is awarded annually to a Quaker student who lives in Colorado. First preference will be given to a student from Denver. Financial need is not required.

The **Joanne Brougher Summers Memorial Scholarship** of \$900 is awarded annually to an international student or Alaskan Eskimo who has ability to succeed in college. Financial need is required.

Department of Biology and Chemistry

The **John and Esther Brougher Memorial Premedical Scholarship** of \$650 is provided to a student majoring in a premedical professional program. Financial need is not required.

The **M. Lowell and Margaret W Edwards Health Science Scholarships** ranging from \$500 to \$2,000 are awarded annually to students majoring in science. Preference will be given to students with a minimum GPA of 3.4 who are preparing for health-related professions. Financial need may be considered.

The **Haisch Family Natural Science Scholarship** of \$650 is awarded annually to seniors who are members of the Friends Church and who are training for a profession in natural science. Minimum GPA of 2.5 is required. Financial need is not considered.

The **Alvin Roberts Memorial Scholarship** of \$1,100 is awarded to a Friends student with a minimum 3.0 GPA. Preference is given to premedical or science majors. Financial need is not required.

The **Science Scholar Award** will provide an annual award of \$1,150 to students majoring in the sciences, preferably in premedicine. The recipient must be a junior or senior with at least a 3.0 GPA.

The **Laurence and Rose Mae Skene Science Scholarship** is awarded to students majoring in biology or chemistry. The recipients must be sophomore level or above. Financial need is not a requirement. Award amounts are between \$1,000 and \$3,500.

The **Mary C. Sutton Memorial Scholarship** of \$200 is awarded annually to a financially needy Quaker student majoring in Christian education or biology. A minimum GPA of 3.0 and financial need are required.

The **Elver Voith Scholarship** provides \$600 annually to a junior or senior majoring in biology or life sciences. Preference is given to a student with a GPA of 3.5 or better, but 3.0 is minimum. Students planning to teach biology or life sciences also may be considered.

Department of Business and Economics

The **Florence A. Butler Memorial Scholarship** of \$400 is awarded annually to a junior or senior student majoring in business/economics. Financial need may be considered.

The **Ira and Frieda Compton Business Scholarship** of \$900 is awarded annually to a sophomore, junior, or senior majoring in business/economics. Financial need is not required.

The **Farmer Family Business/Marketing Scholarship** of \$900 is offered to a business/marketing major. Financial need is considered.

The **Roy and Fern Gage Scholarship** of \$700 is awarded annually to assist a student with need.

The **Charles F. Head Memorial Scholarship** is given to juniors or seniors who are international studies majors with at least a 3.0 GPA. The annual stipend is \$1,550.

The **John Dee Hodgdon, Sr., Memorial Scholarship** of \$1,100 is awarded annually to Friends students to help meet their educational costs.

The **Howard E. Kershner Business and Economics Scholarship** of \$2,400 is awarded annually to students majoring in business and economics. Financial need is not a consideration.

The **L. B. and Thelma Martin Business/Economics Scholarship** of \$1,350 is awarded annually to a junior or senior majoring in business/economics. Financial need is not required. A 3.0 minimum GPA is required.

Department of Communication Arts

The **Stephen Crisp Communication Arts Scholarship** of \$700 is awarded annually to a student of at least sophomore standing majoring in communication arts. Financial need may be considered.

The **Delbert E. Replogle Telecommunications Scholarship** of \$750 is awarded annually to an upper-division student majoring in communications/video production. Financial need is considered.

The **Mary Minthorn Strench Scholarship** of \$1,000 is to assist a student furthering his or her education at George Fox University.

The **Robert and Vivian Terrall Scholarship** is to assist a needy student with a Christian background. The stipend is \$850.

The **George and Dorothy Thomas Language Study Scholarship** provides \$400 to a sophomore with at least two years of high school foreign language study with a 3.0 grade point average. Preference is given to students who intend to pursue language study at George Fox.

Department of Fine Arts

The **Ethel D. Ankeny Memorial Drama Scholarship** of \$300 is awarded to a student active in drama with a minimum grade point average of 3.25 at George Fox University. Financial need is not required.

The **Barbara Armstrong Memorial Music Scholarship** provides \$900 for an upper-division female vocal music major.

The **J. Stewart Carrick Memorial Scholarship** is an award of \$850 to a student majoring in music.

The **Alfred and Pauline Dixon Memorial Music Scholarships** of \$500 assist students majoring in music. Financial need is not required.

The **Emma Prillaman Vocal Music Scholarship** is an \$800 scholarship intended for students who demonstrate strong vocal aptitude and mature Christian character. Recipient must be involved in Concert Choir, Dayspring, or a University-sponsored vocal group.

The **Joe and Pearl Reece Memorial Scholarship** provides \$150 to assist a freshman Friends student studying vocal music.

The **Richard Tippin Memorial Music Scholarship** of \$200 is awarded annually to a member of the Friends Church (preferably of the East Whittier Friends Meeting) pursuing a degree in music. Financial need is not a consideration.

The **Arlene Zeller Memorial Scholarship** of \$150 is awarded annually to a student majoring in music — preferably to a student concentrating on vocal or conduction training.

Department of Health and Human Performance

The **Chris and Diane Walter Davis Memorial Scholarship** of \$2,050 is awarded annually to a female student who is at least a sophomore and has a minimum GPA of 3.0.

The **Health and Human Performance Scholarship** is awarded annually to an Oregon resident majoring in health and human performance with a minimum 2.0 GPA. Financial need is not a requirement. The award is \$2,900.

The **Debbie Larson Memorial Grant** of \$200 is awarded annually to a student. Financial need may be considered.

Department of History

The **Laura Smith Haviland Social Studies Teaching Scholarship** of \$1,550 is awarded annually to a student majoring in social studies teaching. Financial need is required.

The **Herbert Hoover Scholarship in History** of \$700 is awarded annually to a student majoring in history. Financial need is required.

The **Hazel Steinfeldt Peace Studies Scholarship** is awarded to students who have demonstrated a commitment to a vocation of peacemaking or benefitted from the peacemaking education opportunities available at George Fox. Students must have a 3.0 GPA. The total amount of funds awarded is \$11,000.

FINANCIAL AIDDepartment of Mathematics, Computer Science, and Engineering

The **Gerald Edwards Computer Science Scholarship** of \$1,050 is awarded to a deserving junior or senior student majoring in computer information science.

The **George Fox University Engineering Scholarship** is offered to a junior or senior engineering major with at least a 3.0 GPA. The stipend is for \$1,350. Financial need is preferred but not required.

The **Paul G. and Ruth R. Palmer Scholarship** of \$850 is awarded to a junior or senior majoring in the sciences with a minimum GPA of 3.0.

Department of Psychology

The **Leona and J.D. Baker Student Scholarship** provides \$750 to a sophomore, junior, or senior who has a 3.0 or higher GPA and financial need.

The **Ethel Cowgill Memorial Scholarship** of \$700 is awarded annually to a financially needy dependent of a pastor of one of the Northwest Yearly Meeting of Friends churches.

The **Bill and Jim DeLapp Scholarship** of \$1,300 is awarded annually to a student who resides in one of the 13 western states. Financial need is required.

Department of Religious Studies

The **Robert Barclay Tuition Scholarship** of \$1,600 is funded by Arthur and Fern Roberts. Applicants must be upper-division Quaker students majoring in religion or philosophy. The student's home church must provide a supporting statement. Financial need and a minimum GPA of 2.5 are required.

The **Russel and Olivia Gainer Christian Ministry Scholarship** of \$1,050 is awarded to a Christian ministries major, with financial need preferred.

The **Haisch Family Christian Ministry Scholarship** of \$650 is awarded annually to seniors who are members of the Friends Church. Student should be training for local church ministry, anticipating attending seminary preferred. Minimum GPA of 2.5 is required. Financial need is not considered.

The **Ed Kidd Memorial Scholarship** of \$1,050 is awarded to a student, sophomore or above, with an interest in writing or ministry. Financial need is required. Apply through the Department of Writing/Literature in odd-numbered years (2001-02) and through the Department of Religious Studies in even-numbered years (2002-03).

The **Mills Family Christian Service Scholarship** honors the family of Paul Mills, who was an instructor in the Department of Religious Studies at George Fox for 25 years. The stipend of \$2,900 is given to students who are preparing for full-time Christian service.

The **Osburn Grant** provides funds for students who would otherwise be eligible for the Oregon State Need Grant but disqualify because they are Christian ministries majors.

The **Glen and Mildred Rinard Memorial Scholarship** of \$500 is awarded annually to a Friends student majoring in Christian ministries or religion. The recipient must be preparing for Friends pastoral ministry. Students with junior or senior status are given preference. Financial need is not required.

The **Arthur and Fern Roberts Tuition Grant** of \$1,600 is awarded annually to a freshman or sophomore Quaker student. Financial need is required. Recommendation by the Admission Office may be considered.

The **Robertson Family Missionary Scholarship** of \$350 is awarded annually to a son or daughter of an active missionary family. Financial need is not required. Recommendation by the Admission Office may be considered.

The **Alice and Milo Ross Scholarship in Leadership** is awarded annually to a Quaker student who has been active in church leadership positions. The recipient must be a junior or senior with at least a 3.0 GPA. The amount of the award is \$1,650. Financial need is not required.

The **Mr. and Mrs. Fordice W. Stebbins Scholarship** of \$600 is awarded annually to a son or daughter of missionaries who is planning to pursue a career in Christian service. Financial need may be considered.

The **Jack L. Willcuts Memorial Scholarship** offers \$1,150 to a student preparing for ministry in the Friends Church or Christian journalism. Preference is given to students from Northwest Yearly Meeting of Friends Church. The student must have achieved at least sophomore standing with a 3.0 GPA or higher. Financial need may be considered.

Department of Sociology/Social Work

The **Chehalem Center Community Scholarship**, with a stipend of \$2,700, annually assists a social work/sociology student from Newberg or the Chehalem Valley. Financial need is required.

The **David O. Moberg Scholarship** of \$1,550 is awarded annually to a student majoring in psychology or sociology. Financial need is required.

The **Edward L. and Ella M. Morse Memorial Scholarship** of \$200 is awarded to a deserving student who has financial need.

The **Levi T. Pennington Memorial Scholarship** of \$300 is awarded annually to a financially needy student majoring in sociology/social work who maintains a 3.0 GPA.

The **Isaac and Esther Smith Memorial Scholarship** of \$2,400 is awarded to a student with financial need.

The **Valerie Tursa Memorial Scholarship** of \$1,050 is awarded to a junior or senior majoring in social work and/or sociology who maintains a 3.0 GPA. Financial need is required.

The **John Woolman Social Issues and Research Scholarship** of \$700 is awarded annually to a student majoring in sociology/social service or psychology with a minimum GPA of 3.0. The recipient must read The Journal of John Woolman and write a reflective paper. Financial need is not required.

Department of Teacher Education

The **Adrian Family Scholarship** of \$1,000 is to help prepare Christian teachers to teach in the public school system. To be awarded to a junior or senior majoring in elementary education. Oregon residents preferred.

The **Viola D. Barkman Memorial Educational Scholarship** is a two-year \$2,700 scholarship for elementary education majors. The recipients must be residents of Oregon, juniors, and have financial need. Applications for the scholarship will be made in the spring semester of the sophomore year to the director of teacher education, with the final approval granted by the Scholarship Committee.

The **Mona Hadley Teaching Scholarship** of \$300 is offered to an education major with a GPA of at least 3.0. Need is considered. May be renewable.

The **Haisch Family Education Major Scholarship** is awarded annually to a student majoring in education. The award is \$550.

The **Lynn Hampton Memorial Education Scholarship** of \$300 is awarded annually to aid a senior student majoring in elementary education with a minimum GPA of 3.25. Financial need is considered but not required.

The **Clarence and Sue Johnson Scholarship** of \$1,750 is awarded to a student who has financial need.

The **Alida Macy Memorial Education Scholarship** of \$1,550 is awarded annually to a student of sophomore standing or above majoring in elementary education with a minimum GPA of 3.0. Financial need is required.

The **Virginia Millage Memorial Scholarship** provides \$1,200 to financially assist a junior or senior elementary education major. Financial need is required.

The **Carl and Winifred Woodward Sandoz Memorial Scholarship** of \$700 assists education majors who have achieved junior or senior standing with a GPA of 2.5 or higher. Financial need is considered.

The **Lois Strickler Education Scholarship** of \$1,450 is awarded to students pursuing education as a profession. Junior class status preferred, 3.0 GPA mandatory.

The **Arthur and Gwen Winters Scholarship** of \$900 is awarded annually to a Quaker student from Northwest Yearly Meeting of Friends Church. Financial need is required.

The **Ezra and Amanda Woodward Scholarship** provides \$800 for an elementary education major with special needs. Financial need is considered.

The **Glenn Zurcher Scholarship Fund** provides tuition assistance to financially disadvantaged students with a high degree of scholastic aptitude and achievement. The total amount awarded is \$16,950.

Department of Writing/Literature

The **Ed Kidd Memorial Scholarship** of \$1,050 is awarded to a student, sophomore or above, with an interest in writing or ministry. Financial need is required. Apply through the Department of Writing/Literature in odd-numbered years (2001-02) and through the Department of Religious Studies in even-numbered years (2002-03).

The **Language Arts Teaching Scholarship** of \$1,550 is awarded annually to a student majoring in language arts teaching. Financial need is required.

The **Henry A. Nagl and Eddie Daniel Memorial Scholarship Fund** of \$1,200 is awarded annually to help deserving students meet college costs. Financial need must be considered.

The **William Penn Writing Scholarship** of \$600 is awarded annually to an upper-division student majoring in writing/literature or communication arts. Financial need may be considered. Submit a portfolio of published/unpublished writing to the department.

Miscellaneous

The **J. Vernon Rice and Maude R. Rice Scholarships** of \$100 to \$1,200 are awarded to a limited number of students with financial need. Primary consideration is given to Idaho students who attend Idaho Friends churches participating in the Church/University Fellowship Program.

♦ Designated

Friends of the University give generously to provide additional scholarships. The following scholarships and grants are funded in this manner. Except as noted, these scholarships are awarded to returning students only. The amounts of the awards may vary according to the annual gifts of the donors. Applications are accepted by the department the award is listed under.

Financial Aid Office

The **Clint Foundation Scholarship** is to assist students who work to help pay a portion of their educational costs. Students will be required to participate in a service component during the year and must earn the equivalent of the scholarship amount in the year it is awarded. The annual amount is \$2,000.

FINANCIAL AID

The **Abigail and Leo Crisman Scholarship** of \$1,000 is awarded annually to a financially needy student.

The **Faith Award** is a \$1,000 scholarship awarded annually to a student with exceptionally high need who would otherwise not be able to attend George Fox. The recipient must maintain a GPA of 2.75-3.00.

The **Minthorne Family Grant** of \$500 is awarded to a freshman son or daughter of a Friends pastor or missionary. Financial need may be considered.

The **Muscutt Married Student Scholarship** of \$1,000 is annually awarded to a sophomore or above married student with a 3.0 or above GPA and financial need.

The **PGE Merit Award** of \$2,500, renewable annually, is awarded to an Oregon high school senior with high academic achievements and community involvement. Applications are available through high schools. Application must be made by March 30.

The **Roberts Family Scholarship** of \$300 is awarded annually to the valedictorian of the senior class of Greenleaf Academy, located in Greenleaf, Idaho. Student must have a minimum high school GPA of 3.4. Financial need is not required.

The **West Linn High School Scholarship** of \$500, funded by Dea and Lois Cox, is awarded to a graduating senior from West Linn High School to aid in attending George Fox University.

Department of Biology and Chemistry

The **Jim and Carol Kyle Science Scholarship** is offered to students interested in the study of physical sciences. Preference is given to Oregon residents. The annual award fund available is \$6,500.

The **Dr. Claude Lewis Scholarship** is awarded to a student from southern Oregon who is interested in dentistry as a profession. The student must have a minimum 3.5 GPA in sciences and should be from Jackson County with Central Point as first priority. The award will go to one student for four years.

Department of Business and Economics

The **Farmers' Insurance Group Scholarships** are awarded annually to upper-division students preparing for careers in insurance, mathematics, business, personnel, or computer science. Recipients must prepare a brief biographical sketch for Farmers' Insurance. Financial need may be considered.

Department of Family and Consumer Sciences

The **Orpha Puckett Larrance Memorial Scholarship** of \$500 is awarded annually to a student of sophomore, junior or senior standing majoring in family and consumer sciences or elementary education. A GPA of 3.0 or higher is required. Financial need may be considered.

Department of Fine Arts

The **Art Achievement Award** is a \$1,000 scholarship to promote and encourage upper-division students who show promise in visual arts. Must be an art major with a major GPA of 3.5.

The **Culver High School Scholarship** is given annually by the Culver High School scholarship committee to assist a Culver High School graduating senior.

The **Kristine Dicus Memorial Scholarship** of \$500 is awarded to an outstanding freshman student who plans to major in music. Financial need is required. Recommendation by the Admission Office may be considered.

The **Roberta Mitchell Jansen Music Scholarship** is awarded to a student for four years. The \$500 award is given to a student specializing in music conducting, with a minimum 3.0 GPA. Preference will be given first to students from Polk County then to Oregon high school graduates.

The **Kim Wentworth Art Scholarship** was founded to support an upper-division student majoring in art. Financial need is a requirement. The annual scholarship is \$1,000.

Department of Health and Human Performance

The **Physical Education Grant** of \$600 is awarded annually to an upper-division student planning to teach physical education or serve in the recreation field. A 3.0 minimum GPA is required. Financial need may be considered.

Department of History and Political Science

The **Kerry E. and Vickie D. Irish Scholarship in History** is awarded annually to a history major with a minimum 3.5 GPA. Financial need is not a requirement. The annual award is \$750.

Department of Mathematics, Computer Science, and Engineering

The **Math Faculty Scholarship** is a \$1,200 scholarship awarded annually to a student majoring in math or math teaching. The student must be sophomore level or above. The award may be renewed. Financial need is not a requirement.

Department of Religious Studies

The **Creelius Family Christian Ministry Scholarship** of \$500 is awarded annually to a student majoring in Christian ministry and planning to prepare for full-time Christian service. Financial need is required.

The **Hanson Quaker Leadership Scholarship** was established to assist a junior or senior Quaker student who sees the Friends Church as an avenue for future ministry. The stipend of \$1,000 is not limited to future pastors. Financial need is required. May be renewed for a second year.

Department of Sociology/Social Work

The **Allen Scholarship and Social Science Award** for \$1,000 is given to a sociology/social work major with a 3.0 minimum GPA who is a junior or senior and considering the fields of aging, the homeless, or lower income populations. Financial need is considered.

The **Pearl Crow Memorial Scholarship** is awarded annually to students majoring in sociology/social work. Incoming freshmen must have a minimum 3.25 GPA. Returning students must have a minimum 3.0 GPA. The maximum award is \$1,000 per academic class. Financial need may be considered. Graduates of Christian high schools preferred. The award may be renewed. Freshmen apply through the Admission Office, and returning students apply through the Department of Sociology/Social Work.

Department of Teacher Education

The **Roberta Mitchell Jansen Scholarship** is a \$500 award for four years to assist a student majoring in math education. The student must have a minimum 3.0 GPA. Preference will go to a high school graduate from Polk County, with second preference going to a high school graduate from Oregon. Financial need is not a requirement.

Miscellaneous

The **Alumni Scholarship/Alumni Awards** are given annually to 11 students who are direct descendants (parents or grandparents) of George Fox alumni who attended George Fox University for at least one year, including the MHR/MOL/MBIS programs.

The **Madras High School Scholarship** is given annually by the Madras High School scholarship committee to assist a Madras High School graduating senior.

It is the hope of the University that recipients of these funds will someday desire to add to the scholarship endowment fund and designate gifts for this purpose.

◆ Loans

The Federal Perkins Loan (previously the National Direct Student Loan) is awarded by the Financial Aid Office based on demonstrated need and availability of funds. Because of the limited funds, this is usually awarded to those students who have exceptional need.

The University participates in the federal Family Education program for the federal Stafford Loan, the federal unsubsidized Stafford, and the federal Parents Loan for Undergraduate Students (PLUS). Eligibility for the Stafford and the unsubsidized Stafford is determined by filling out the Free Application for Federal Student Aid (FAFSA), as well as by student status. Parents wishing to borrow through the PLUS program may request an application through the Financial Aid Office.

When other funds are not available, loans place the responsibility for financing higher education on the student or parent. Families are encouraged to be cautious when applying for loans but to consider the value of receiving financial assistance when needed and of paying some of the cost of education later when they are better able to do so. The University expects loans to be a significant part of the usual financial aid award, but the family must decide whether the loans are necessary based upon their financial situation.

◆ Employment

On-campus employment constitutes a significant resource for students who have documented financial need. Work-study is offered by the Financial Aid Office based mostly on need and the availability of funds. Most student employment is subsidized through the Federal Work-Study Program. If eligible, a student must submit a Work-Study application supplied by the Human Resources Office. The University is required to spend some of its federal subsidy for off-campus community service positions. This is coordinated through the Human Resources Office and selected academic departments. A limited number of employment positions are given to students who do not qualify for federal funds. These positions usually go to returning students who have been specifically requested by their supervisor.

◆ Governmental Funds and Provisions

Prospective and enrolled students may request and receive information from the financial aid staff concerning available financial assistance and student consumer information.

Financial resources are supplied by the federal government through Title IV of the Higher Education Act of 1965 as amended. This aid includes the Federal Pell Grants, Federal Supplementary Educational Opportunity Grants, the Federal Perkins Loan/Direct Loan Program, the Federal Guaranteed Student Loan Program, federal Parents Loan for Undergraduate Students, and the Federal Work-Study Program. Other grants are contributed by the state of Oregon for eligible residents and by the University through its general fund and private donors. Students may inquire about eligibility for aid, criteria for selection, award amounts, and rights and responsibilities.

**COMPLIANCE WITH
FEDERAL LAWS &
REGULATIONS**

*George Fox
University*

FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT

COMPLIANCE WITH FEDERAL LAWS AND REGULATIONS

George Fox University does not discriminate in its educational programs or activities, including employment, on the bases of age, sex, handicap/disability, race, color, national or ethnic origin, or other statuses protected by applicable nondiscrimination laws. The University also is in compliance with the Family Educational Rights and Privacy Act of 1974.

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 sex)

Director of Financial Aid: 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

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 (campus security, personnel, and health services staff); 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 athletic 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 fall semester. Otherwise, all photographs and information listed above are considered as "directory information" according to federal law. Nondirectory information, notably grade records, are 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 which pertains to the inquiring student.

(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.)

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 tobacco in any form, alcoholic beverages, and illicit or non-prescribed 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.

Disabled Students

The Enrollment Services Office coordinates services for disabled students. The Office also promotes campus awareness of issues and needs of disabled students. Supportive services can 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 Health and Human Performance Department.

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

Disclosure of Uses for Social Security Numbers

Providing one's Social Security number is voluntary. If a student provides it, the University may use his or her Social Security number for keeping records, doing research, and reporting. The University does not use the number to make any decision directly affecting the student or any other person. A student's Social Security number is not given to the general public. Students who choose not to provide their Social Security numbers are not denied any rights as a student. A statement in the class schedule describes how Social Security numbers are used. Providing one's Social Security number means that the student consents to use of the number in the manner described.

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.

◆ A. 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 the 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 working, academic, or student life environment.

Sexual harassment may take many other forms. 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, grades) in response to sexual contact. More subtle forms of sexual harassment may include, but are not limited to, innuendoes, jokes, offensive or sexually oriented posters, cartoons, caricatures, or comments when these things contribute to an intimidating, hostile, or offensive environment.

◆ B. Complaint Procedure for Harassment

If any employee or student believes he or she has witnessed or been discriminated against or has witnessed or been subjected to sexual or other forms of harassment, the employee or student should immediately notify the following:

1. If the alleged incident involves student to student, faculty member to student, or employer to employee harassment or discrimination, contact a school dean, the vice president for academic affairs, the vice president for student life, the dean of students, or the vice president for enrollment services.
2. If the alleged incident involves supervisor to supervisor, or faculty member to staff member, or student in the work-study program for the University contact a supervisor or manager, the director of human resources, the assistant vice president for financial affairs, or the vice president for financial affairs.

All complaints are promptly and thoroughly investigated and corrective action taken as determined appropriate by the University. No one will suffer retaliation for reporting concerns about discrimination or harassment.

Retaliation against an individual for good faith initiation or participation in the complaint procedure is strictly prohibited. Violation of this policy subjects an individual to disciplinary consequences up to and including termination and dismissal.

Official Withdraw Process

If a student wishes to officially withdraw from all course work at George Fox University either during or at the end of a semester/enrollment period, the student must notify the Registrar's Office directly (verbally or in writing). The student may contact the Registrar's Office in person, by fax, phone or on the Internet at <http://cis.georgefox.edu/Registrar/index.html>. An official withdraw begins when a student submits a completed withdraw form to the Registrar's Office.

◆ Procedures

- The Registrar's Office is designated by the institution as the contact for all withdraws: part-time, during-semester, or complete withdraws.
- The student must pick up a withdraw form at the Registrar's Office or Enrollment Services counter (also available on the Internet), obtain signatures or approval from the Financial Aid Office and the Student Accounts Office, and return the form to the Registrar's Office. (This process may be completed via the phone working with the Registrar's Office.)
- Generally the student will be awarded W grades for all courses affected by an official withdraw.
- The student is then considered to be officially withdrawn.

◆ General Information

- The student is responsible to return all institutional property to the appropriate office or department, such as library books, keys, athletic equipment, lab equipment, etc. Students are financially responsible for all items not returned.
- The student will be notified by the Student Accounts Office of financial obligations when the withdrawal calculation is completed. For a copy of or examples of the refund policy, please contact the Students Accounts Office.
- The official withdraw date is established by the Registrar's Office. Generally the withdraw date is the date the withdraw form is completed and submitted to the Registrar's Office or the date established on the withdraw form.
- For during-semester withdraws, students generally lose enrollment privileges five working days after the official withdraw date established by the Registrar's Office. These services may include, but are not limited to, e-mail, library, student activities, food service, on-campus housing, health, and other related services associated with enrolled student status. The University reserves the right to remove privileges immediately upon official withdraw notification.

◆ Rescind Notification of Intent to Withdraw

If a student wishes to cancel his or her official withdraw from the institution, that student must submit to the Registrar's Office, in writing, his or her intent to complete the current term of enrollment. This rescinds the student's notification of intent to withdraw.

◆ Unofficial Withdraw

If a student fails to follow the official withdraw process, he or she will be considered to have unofficially withdrawn. If the student unofficially withdraws, the institution will generally use the 50 percent point of term or a documented earlier or later date of academic activity or attendance as the official withdraw date. Generally, the student will be awarded "F" grades for all courses affected by an unofficial withdraw.

◆ Appeal

An appeal of the established withdraw date is to be submitted in writing to the Registrar's Office within 60 days from the established withdraw date.

DIRECTORIES

*George Fox
University*

FACULTY

FACULTY, 2001-02

This register includes those teaching half time or more under regular faculty contracts, as well as certain administrative officers with faculty designation. Listed are those contracted at the time of printing.

Wayne V. Adams, Professor of Psychology, Director of the Graduate School of Clinical Psychology, B.A., Houghton College; M.A., Ph.D., Syracuse University, George Fox University 1999–

Michael A. Allen, Professor of Sociology, B.S., M.S., Illinois State University, George Fox University 1976–

Richard E. Allen, Associate Professor of Management and Health and Human Performance, Assistant Director of Professional Studies, B.S., Seattle Pacific University; M.S., University of Oregon, George Fox University 1969–

Paul N. Anderson, Professor of Biblical and Quaker Studies, Chairperson of the Department of Religious Studies, B.A., Malone College; B.A., Trinity Lutheran Seminary; M.Div., Earlham School of Religion; Ph.D., Glasgow University, George Fox University 1989-98, 1999–

Raymond D. S. Anderson, Assistant Professor of Media Communications, B.S., University of West Indies; M.B.A., Nova Southeastern University, George Fox University 2001–

Mark E. Ankeny, Associate Professor of Education, Director of the Doctor of Education Program, B.A., George Fox University; M.S., Portland State University; Ph.D., University of Oregon, George Fox University 1991–

Rebecca Thomas Ankeny, Professor of English, Dean of Faculty Development, B.A., George Fox University; M.A., Ph.D., University of Oregon, George Fox University 1988–

Patrick I. Bailey, Assistant Professor of Health and Human Performance, B.S., University of Idaho; M.Ed., University of Oregon, George Fox University 1995–

Robin E. Baker, Vice President for Academic Affairs, Professor of History, B.A., Grand Canyon University; M.A., Hardin-Simmons University; Ph.D., Texas A&M University, George Fox University 1999–

Tara L. Baker, Assistant Professor of Biology, B.S., Ph.D., Iowa State University, George Fox University 1998–

Grace A. Balwit, Associate Professor of Education, Director of the Master of Arts in Teaching Program, B.S., Eastern Nazarene College; M.A., Ed.Spec., Northern Michigan University; Ph.D., University of Wisconsin, George Fox University 1994–

Dirk E. Barram, Professor of Business, B.A., Gordon College; M.Ed., Kent State University; Ph.D., Michigan State University, George Fox University 1986–

Stephen R. Bearden, Assistant Professor of Marriage and Family Therapy, B.A., Olivet Nazarene University; M.Div., M.A., Fuller Theological Seminary; Ph.D., Oregon State University, George Fox University 1996–

Deborah L. Berhó, Assistant Professor of Spanish, B.A., Northwest Nazarene College; M.A., Ph.D., University of New Mexico, George Fox University 1997–

Virginia D. Birky, Assistant Professor of Education, B.S., Goshen College; M.S., Ohio State University, George Fox University 2000–

Teresa L. Boehr, Associate Professor of Family and Consumer Sciences, Chairperson of the Department of Family and Consumer Sciences, B.S., Oregon State University; M.A., Linfield College, George Fox University 1985–

John D. Bowman, Professor of Music, B.M., Houghton College; D.M.A., University of Cincinnati, George Fox University 1980–

Irv A. Brendlinger, Professor of Religion, B.A., Asbury College; M.Div., Asbury Theological Seminary; M.Ed., University of Oklahoma; Ph.D., University of Edinburgh, George Fox University 1993–

Daniel L. Brunner, Associate Professor of Church History and Pastoral Studies, Director of the Graduate Department of Ministry, B.A., Northwest Christian College; M.Div., Fuller Theological Seminary; Ph.D., University of Oxford, George Fox University 1996–

Robert E. Buckler, Professor of Psychology, A.B., University of California, Los Angeles; M.P.H., Johns Hopkins University; M.D., Georgetown University School of Medicine, George Fox University 1990–

Rodger K. Bufford, Professor of Psychology, Director of Integration for the Graduate School of Clinical Psychology, B.A., The King's College; M.A., Ph.D., University of Illinois, George Fox University 1990–

Gary R. Buhler, Artist in Residence, B.S., Western Oregon State College; M.F.A., University of Arizona, George Fox University 1989-90, 2000–

William C. Buhrow, Jr., Director of Health and Counseling Services, Assistant Professor of Psychology, A.A., Baptist Bible College; B.A., Cedarville College; M.A., Dallas Theological Seminary; M.A., Psy.D., George Fox University, George Fox University 1994–

Roy I. Bunch, Assistant Professor of Education, Director of Master of Arts in Teaching Nighttime Program. B.Th., Northwest Christian College; M.Div., Emmanuel School of Religion; Ed.D., Portland State University. George Fox University 2001–

George J. Byrtels, Assistant Professor of Management. B.S., University of Wisconsin, Stevens Point; M.S., National Louis University; Ph.D., Walden University. George Fox University 1991–

Clark D. Campbell, Professor of Psychology, Chairperson of the Department of Psychology. B.A., Wheaton College; M.A., Ph.D., Western Seminary. George Fox University 1991–

Douglas G. Campbell, Professor of Art. B.A., Florida State University; M.E.A., Pratt Institute; Ph.D., Ohio University. George Fox University 1990–

Kevin M. Carr, Assistant Professor of Education. B.S., University of Oregon; M.S., Ph.D., University of Idaho. George Fox University 1998–

Pam B. Chambers, Instructor of Earth Sciences. B.S., Milligan College. George Fox University 2000–

Paul H. Chamberlain, Professor of Chemistry, Director of Overseas Studies. B.A., Point Loma College; Ph.D., University of Nevada, Reno. George Fox University 1977–

R. Carlisle Chambers, Associate Professor of Chemistry. B.S., Milligan College; Ph.D., Emory University. George Fox University 1994–

Charles K. Church, Reference Librarian. B.S., Southern Oregon State College; M.L.S., University of Oregon. George Fox University 1993–

David M. Church, Assistant Professor of Music. B.M., University of Colorado; M.S., University of Southern California; M.A., Pacific Lutheran University. George Fox University 2000–

Charles J. Conniry Jr., Assistant Professor of Pastoral Ministries, Director of the Doctor of Ministry Program. B.A., American Christian School of Religion; M.Div., Bethel Theological Seminary West; Ph.D., Fuller Theological Seminary. George Fox University 1998–

Wesley A. Cook, Associate Professor of Health and Human Performance. B.A., University of Northern Colorado; M.A.T., Lewis and Clark College. George Fox University 1987–

Caitlin C. Corning, Associate Professor of History, Chairperson of the Department of History and Political Science. B.A., Seattle Pacific University; M.A., Ph.D., University of Leeds. George Fox University 1996–

Victoria L. Defferding, Assistant Professor of Spanish. B.A., University of Oregon; M.A., Portland State University. George Fox University 1989–

Stephen Delamarter, Associate Professor of Old Testament. A.A., Wenatchee Valley College; B.A., Seattle Pacific University; M.A.R., M.Div., Western Evangelical Seminary; M.A., Ph.D., Claremont Graduate School. George Fox University 1996–

Mark W. Doyle, Instructor of Biology. B.S., Eastern Oregon State University. George Fox University 2000–

Jeffrey M. Duerr, Assistant Professor of Biology. B.A., B.S., Whitworth College; M.S., Portland State University; Ph.D., University of Hawaii. George Fox University 1999–

Eugene R. Dylema, Professor of Business and Economics. B.A., University of Illinois; M.B.A., University of Chicago; Ph.D., University of Notre Dame. George Fox University 1991–

Patsy A. Engle, Assistant Professor in Teacher Education. B.A., Indiana Wesleyan University; M.A., Ball State University. George Fox University 1993–

Richard A. Engnell, Professor of Communication Arts. B.A., Biola University; M.A., Ph.D., University of California, Los Angeles. George Fox University 1978–

William R. Essig, Assistant Professor of Business. B.A., Miami University; Dip.C.S., Regent College; M.P.A., Harvard University. George Fox University 1995–

Michael A. Everest, Assistant Professor of Chemistry. B.S., Wheaton College; Ph.D., Stanford University. George Fox University 2001–

Gary K. Fawver, Professor of Outdoor Ministries. B.A., Wheaton College; M.Div., Gordon-Conwell Theological Seminary; D.Min., Western Seminary. George Fox University 1974–

James D. Foster, Dean of Graduate and Professional Studies, Professor of Psychology. B.S., Seattle Pacific University; M.A., Ph.D., The Ohio State University. George Fox University 1980–

Kathleen A. Gathercoal, Associate Professor of Psychology, Director of Research for the Graduate School of Clinical Psychology. A.B., Franklin & Marshall College; M.A., Ph.D., Case Western Reserve University. George Fox University 1993–

Steven C. Grant, Associate Professor of Health and Human Performance. B.A., Biola University; M.Ed., Linfield College. George Fox University 1982–

Dennis B. Hagen, Director of East Asia Exchange Programs. B.A., Whitworth College; M.Mus.Ed., Indiana University; B.D., Western Evangelical Seminary; Ph.D., Indiana University. George Fox University 1964–

Mark D. Hall, Associate Professor of Political Science. B.A., Wheaton College; M.A., University of Virginia; Ph.D., University of Virginia. George Fox University 2001–

Thomas E. Hancock, Associate Professor of Education. B.A., Whitworth College; M.Ed., Seattle Pacific University; Ph.D., Arizona State University. George Fox University 2000–

David M. Hansen, Assistant Professor of Computer Science. B.S., Oral Roberts University; M.S., Washington State University; Ph.D., Oregon Graduate Institute. George Fox University 1999–

Robert E. Harder, Professor of Mechanical Engineering, Director of Engineering Program. B.S.M.E., M.S.M.E., Michigan Technological University; Ph.D., Oregon Graduate Institute of Science and Technology. George Fox University 1988–

Mark O. Hatfield, Herbert Hoover Distinguished Professor. B.A., Willamette University; M.A., Stanford University. George Fox University 1997–

Glenda T. Hays, Assistant Professor of Family and Consumer Science. B.S., University of Southwestern Louisiana; M.S., Florida State University. George Fox University 2001–

Thomas F. Head, Professor of Economics. B.S., M.S., University of Oregon; M.A., University of California, Berkeley. George Fox University 1971-74; 1976-79; 1983–

FACULTY

W Scot Headley, Associate Professor of Education, Chairperson of the Department of Teacher Education. B.S., M.Ed., Colorado State University; Ph.D., The Ohio State University. George Fox University 1994–

Henry C. Helsabeck, Professor of Mathematics, Chairperson of the Department of Mathematics, Computer Science, and Engineering. B.A., Culver Stockton College; M.A., M.A., Ph.D., University of Missouri. George Fox University 1978–

Edward E Higgins, Professor of English, Chairperson of the Department of Writing/Literature. B.A., LaVerne College; M.A., California State College at Fullerton; Ph.D., Union Graduate School. George Fox University 1971–

Karen S. Hostetter, Assistant Professor of Health and Human Performance. B.A., Seattle Pacific University; M.S., California State University-Fullerton. George Fox University 2000–

Martha A. Janco, Associate Professor of English as a Second Language, Director of the English Language Institute. B.A., M.A., University of Oregon. George Fox University 1989–

Kerry E. Irish, Associate Professor of History. B.A., George Fox University; M.A., Ph.D., University of Washington. George Fox University 1993–

Dale R. Isaak, Assistant Professor of Health and Human Performance. B.S., Willamette University; M.Ed., University of Minnesota; M.S., Indiana State University. George Fox University 1995–

Clella I. Jaffe, Associate Professor of Communication Arts, Director of Forensics. B.A., Seattle Pacific University; M.Ed., Ph.D., Oregon State University. George Fox University 1995–

Craig E. Johnson, Professor of Communication Arts, Chairperson of the Department of Communication Arts. B.A., Luther College; M.A., Wheaton College; Ph.D., University of Denver. George Fox University 1988–

Derric E. Johnson, Artist in Residence, Director of Dayspring. B.A., Azusa Pacific University. George Fox University 1996–

John M. Johnson, Associate Professor of Mathematics. B.S., Northwest Nazarene College; M.S., Kansas State University. George Fox University 1984–

Merrill L. Johnson, University Librarian, Associate Professor. B.A., Seattle Pacific University; M.L.S., University of Oregon. George Fox University 1980–

Michele E. Johnson, Associate Professor of Business. B.A., Wayne State University; M.B.A., University of South Dakota. C.P.A. George Fox University 1997–

Thomas E. Johnson, Professor of Biblical Theology. B.Ph., Wayne State University; M.Div., Fuller Theological Seminary; Th.M., Princeton Theological Seminary; Ph.D., Duke University. George Fox University 1997–

William G. Jolliff, Professor of Writing/Literature. B.S., Central Michigan University; M.A., Ashland Theological Seminary; Ph.D., The Ohio State University. George Fox University 1994–

Charles D. Kamilos, Technical Services Librarian. B.A., Northwest Christian College; M.Div., Brite Divinity School-Texas Christian University; M.A., University of Iowa. George Fox University 1997–

Paul W. Kennedy, Associate Professor of Sociology, Chairperson of the Department of Sociology and Social Work, Assessment Coordinator. B.A., Wheaton College; M.S., State University of New York; M.A., Fuller Theological Seminary; Ph.D., University of Southern California. George Fox University 1997–

Gary M. Kilburg, Associate Professor of Education. B.S., Eastern Oregon State College; Ph.D., Oregon State University. George Fox University 1992–

Dwight J. Kimberly, Associate Professor of Biology. B.A., George Fox University; M.S., Oregon State University. George Fox University 1994–

E. Alan Kluge, Associate Professor of Business. B.S., M.B.A., Ph.D., Oregon State University. George Fox University 1996–

Christopher J. Koch, Associate Professor of Psychology, Director of Assessment, Department of Psychology. B.S., Pennsylvania State University; M.S., Ph.D., University of Georgia. George Fox University 1993–

Beth A. La Force, Professor of Education. B.S., Malone College; M.A., Western Michigan University; Ph.D., Michigan State University. George Fox University 1987–

Gregg T. Lamm, Campus Pastor. B.A., George Fox University; M.Div., Western Evangelical Seminary. George Fox University 1991–

Robert E. Lauinger, Associate Professor of Music. B.S., Portland State University; M.M., Indiana University; D.M.A., University of Arizona. George Fox University 1967-69; 1971–

Sharon E. Linzey, Professor of Sociology. B.A., Southern California College; M.A., M.A., Ph.D., Indiana University. George Fox University 1997–

Carleton H. Lloyd, Professor of Management. B.A., Columbia Christian College; M.A., Eastern New Mexico University; M.S., Oregon State University; M.S.S.W., Ph.D., University of Texas-Arlington. George Fox University 1994–

Howard R. Macy, Professor of Religion and Biblical Studies. B.A., George Fox University; M.A., Earlham School of Religion; Ph.D., Harvard University. George Fox University 1990–

Margaret L. Macy, Associate Professor of Education. B.A., George Fox University; M.Ed., Wichita State University; Ph.D., Walden University. George Fox University 1991–

Anita B. Maher, Assistant Professor of Marriage and Family Therapy. B.A., Millersville State University; M.A., Azusa Pacific University; M.A., Ph.D. Fuller Theological Seminary. George Fox University 1996–

Mark S. McLeod, Associate Professor of Philosophy. B.R.E., Briercrest Bible College; B.A., Westmont College; M.A., Trinity Evangelical Divinity School; Ph.D., University of California. George Fox University 1999–

Rebecca L. M. McLeod, Assistant Professor of History. B.A., Trinity College; M.A., University of California; M.A., M.Phil., Ph.D., Yale University. George Fox University 1999–

Susan C. McNaught, Assistant Professor of Management. B.A., Oklahoma City University; M.S., Portland State University; Ph.D., Oregon State University. George Fox University 1996–

Randolph Michael, Associate Professor of Marriage and Family Therapy. B.A., Northwest Nazarene College; M.Div., Nazarene Theological Seminary; D.Min., Midwestern Baptist Theological Seminary. George Fox University 1996–

Nicole R. Miller-Rigelman, Assistant Professor of Education. B.A., Portland State University; M.Ed., Portland State University. George Fox University 2001–

Melanie J. Mock, Assistant Professor of Writing Literature. B.A., George Fox University; M.A., University of Missouri; Ph.D., Oklahoma State University. George Fox University 1999–

Ronald I. Mock, Director of the Center for Peace Learning, Assistant Professor of Peace Studies and Political Science, Director of Intensified Studies. B.A., George Fox University; M.P.A., Drake University; J.D., University of Michigan. George Fox University 1985–

Glen T. Moran, Director of the Boise Center, Professor of Education. B.S., Colorado State University; M.A., University of Colorado; Ed.D., University of Northern Colorado. George Fox University 1979-86; 1991–

Robert JC Morgan, Executive in Residence. B.S., University of Phoenix; M.A., Western International University. George Fox University 1999–

MaryKate Morse, Associate Professor of Spiritual Formation and Pastoral Studies. B.S., Longwood College; M.A., M.Div., Western Evangelical Seminary; Ph.D., Gonzaga University. George Fox University 1996–

Lee Nash, Professor of History. A.B., Cascade College; M.A., University of Washington; Ph.D., University of Oregon. George Fox University 1975–

John R. Natzke, Associate Professor of Electrical Engineering. B.S.E.E., Milwaukee School of Engineering; M.S.E.E., Marquette University; Ph.D.E.E., University of Michigan. George Fox University 1995–

Roger J. Newell, Assistant Professor of Religious Studies. B.A., Westmont College; M.Div., Fuller Theological Seminary; Ph.D., University of Aberdeen. George Fox University 1997–

K. Louise Newswanger, Public Services Librarian, Associate Professor. B.A., Eastern Mennonite College; M.S.L.S., Drexel University. George Fox University 1992–

Neal P. Ninteman, Assistant Professor of Mathematics. B.S., California Polytechnic State University; M.S., Stanford University. George Fox University 2000–

Mary R. Olson, Assistant Professor of Management. B.A., M.A., Pacific Lutheran University. Ph.D., University of Idaho. George Fox University 1999–

G. Dale Orkney, Professor of Biology. B.A., Northwest Nazarene College; M.S., Ph.D., University of Idaho. George Fox University 1963-64; 1965–

Ashjorn Osland, Associate Professor of Business, Director of the Master of Business Administration Program. B.A., University of Minnesota; M.S.W., University of Washington; M.B.A., Ph.D., Case Western Reserve University. George Fox University 1995–

Donna K. Phillips, Associate Professor of Education, Director of Master of Arts in Teaching Daytime Program. B.S., Eastern Oregon State University; M.S., Western Oregon State University. George Fox University 1998–

Alex A. Pia, Assistant Professor of English as a Second Language, Director of International Student Services. B.A., California State University, Chico; M.A., Portland State University. George Fox University 1990–

Donald R. Powers, Professor of Biology, Chairperson of the Department of Biology and Chemistry. B.S., Biola University; M.S., San Diego State University; Ph.D., University of California, Davis. George Fox University 1989–

Gary L. Railsback, Associate Professor of Education, Director of Master of Education Program. B.S., Northwest Christian College; M.A., Fuller Theological Seminary; Ph.D., University of California, Los Angeles. George Fox University 2000–

Colleen D. Richmond, Assistant Professor of Writing and Literature. B.A., Oregon State University; M.A., Portland State University. George Fox University 1992–

Arthur O. Roberts, Professor-at-Large. B.A., George Fox University; M.Div., Nazarene Theological Seminary; Ph.D., Boston University. George Fox University 1953–

Félix Rosales, Instructor for Special Programs. Diploma in Theology, International Bible Institute, Managua, Nicaragua; GED Certificate, Centralia Community College; M.A., Western Evangelical Seminary. George Fox University 1996–

Scott M. Rueck, Assistant Professor of Health and Human Performance, Head Coach of Women's Basketball. B.S., M.A.T., Oregon State University. George Fox University 1996–

Beth A. Shafer, Assistant Professor of Management. B.A., Northwest Nazarene College; M.A., Boise State University. George Fox University 2000–

Mel I. Schroeder, Associate Professor of Drama, Chairperson of the Department of Fine Arts. B.A., Northwest Nazarene College; M.A., San Jose State University. George Fox University 1978-83; 1987–

Sherrie K. Schulte, Assistant Professor of Social Work, Director of Social Work Programs. B.S., George Fox University; M.S.S., M.L.S.P., Bryn Mawr College; M.Div., Eastern Baptist Theological Seminary. George Fox University 1995–

FACULTY

Mark A. Selid, Assistant Professor of Business. B.A., Pacific Lutheran University; M.T., Portland State University; CPA. George Fox University 1993–

Richard S. Shaw, Assistant Professor of Marriage and Family Therapy. B.S., University of Nebraska-Kearney; M.A., Asbury Theological Seminary; D.M.F.T., Fuller Theological Seminary. George Fox University 1996–

Marc A. L. Shelton, Associate Professor of Education, Director of Administrative License Program. B.S., University of South Dakota; M.A., University of South Dakota; Ed.D., University of South Dakota. George Fox University 2000–

R. Larry Shelton, Wesleyan Professor of Theology. B.A., Pfeiffer College; M.Div., Th.M., Asbury Theological Seminary; Th.D., Fuller Theological Seminary. George Fox University 1996–

Byron S. Shenk, Professor of Health and Human Performance, Chairperson of the Department of Health and Human Performance. B.A., Goshen College; M.A., University of Oregon; Ed.D., University of Virginia. George Fox University 1990–

Sherie L. Sherrill, Instructor of English, Director of English Lab. B.A., Seattle Pacific University. George Fox University 1976–

Laura K. Simmons, Assistant Professor of Christian Ministries. B.A., University of California, Davis; M.A., Ph.D., Fuller Theological Seminary. George Fox University 2001–

Philip D. Smith, Associate Professor of Philosophy. B.A., George Fox University; M.A., Fuller Theological Seminary; Ph.D., University of Oregon. George Fox University 1982–

Jayne I. Sowers, Assistant Professor of Education. B.S., Indiana State University; M.S., University of Tennessee; Ed.D., Portland State University. George Fox University 1999–

Carole D. Spencer, Instructor of Church History. M.A., Western Evangelical Seminary. George Fox University 1996–

Ronald G. Stansell, Professor of Religion. B.A., George Fox University; M.Div., Western Evangelical Seminary; D.Miss., Trinity Evangelical Divinity School. George Fox University 1985–

Mark A. Sundquist, Assistant Professor of Health and Human Performance, Head Coach of Men's Basketball. B.A., Seattle Pacific University; M.S., Portland State University. George Fox University 2000–

Daniel S. Sweeney, Associate Professor of Counseling. B.A., San Jose State University; B.A., San Jose Bible College; M.A., Azusa Pacific University; Ph.D., University of North Texas. George Fox University 1996–

Craig B. Taylor, Associate Professor of Health and Human Performance, Director of Athletics. B.S., George Fox University; M.Ed., Linfield College. George Fox University 1975-78; 1980–

Mark E. Terry, Assistant Professor of Art. B.S., Willamette University; M.S., Western Oregon State University. George Fox University 1997–

Nancy S. Thurston, Associate Professor of Psychology. B.A., Hope College; M.A., Ph.D., Central Michigan University. George Fox University 1999–

Manfred Tschan, Assistant Professor of Health and Human Performance. B.S., State Teacher's College, Hofwil, Switzerland; B.S., University of Bern; M.S., University of Oregon. George Fox University 1988–

Timotheos Tsohantaris, Assistant Professor of Religion. B.A., Barrington College; M.A., Ashland Theological Seminary. George Fox University 1985-90; 1993–

Janis L. Tyhurst, Reference Librarian. B.A., M.L.S., University of California. George Fox University 1998–

Carrie Jo Vincent, Assistant Professor of Drama. B.A., M.A., Western Oregon State College. George Fox University 1998–

Brent H. Weaver, Associate Professor of Music, Chairperson of the Department of Fine Arts. B.A., Goshen College; M.M., University of Oregon; D.M.A., University of Oregon. George Fox University 2001–

K. Mark Weinert, Associate Professor of History. Associate Dean for Academic Affairs. B.A., Anderson College; M.Div., Western Evangelical Seminary; M.A., University of Portland; Ph.D., Vanderbilt University. George Fox University 1982–

Kenneth F. Willson, Associate Professor of Music. B.A., George Fox University; M.Mus., University of Portland; D.A., University of Northern Colorado. George Fox University 1987-90; 1992–

Brent D. Wilson, Assistant Professor of Computer Science. B.A., Western Oregon State University; M.A.T., Oregon State University. George Fox University 1994–

Diane E. Wood, Assistant Professor of Family and Consumer Sciences and Education. B.A., Oregon State University; M.Ed., University of Portland. George Fox University 1995–

Debra Drecnik Worden, Associate Professor of Business and Economics. B.A., Westminster College; M.S., Ph.D., Purdue University. George Fox University 1994–

Jenny Y. P. Yau, Associate Professor of Education. B.A., University of Waterloo; M.A., University of Waterloo; Ed.D., University of Rochester. George Fox University 2001–

Kent L. Yinger, Assistant Professor of Biblical Studies. B.A., Wheaton College; M.Div., Gordon-Conwell Theological Seminary; Ph.D., Sheffield University. George Fox University 2001–

FACULTY EMERITI

Ralph K. Beebe, Professor of History. B.A., George Fox University; M.Ed., Linfield College; M.A., Ph.D., University of Oregon. George Fox University 1955-57; 1974-97.

Wayne E. Colwell, Professor of Psychology. B.S., John Brown University; M.Div., Grace Theological Seminary; M.Ed., University of Arkansas; Ph.D., Arizona State University; George Fox University 1990-98.

Ronald S. Crecelius, Chaplain. A.B., Th.B., George Fox University; M.A., Pasadena College; M.R.E., D.D., Western Evangelical Seminary. George Fox University 1967-87.

Gerald W. Dillon, Professor of Pastoral Ministry. A.B., Kletzing College; B.D., Asbury Theological Seminary; M.A., State University of Iowa; D.D., Azusa Pacific University.

Robert D. Gilmore, Director of Instructional Media. B.A., Azusa Pacific University; B.D., California Baptist Theological Seminary; M.S.Ed., University of Southern California. George Fox University 1964-67; 1968-95.

Myron D. Goldsmith, Professor of Religion and Greek. B.A., Friends University; B.D., Asbury Theological Seminary; Ph.D., Boston University. George Fox University 1961-74; 1975-86.

Mary S. Green, Associate Professor of Mathematics. B.A., Houghton College; M.N., Case Western Reserve University. George Fox University 1973-89.

William D. Green, Vice President and Dean of the College, Professor of Religion. Th.B., Malone College; A.B., Taylor University; M.A., Case Western Reserve University; Ed.D., University of Tennessee; L.H.D., George Fox University. George Fox University 1972-89.

Mackey W. Hill, Professor of History. B.A., University of California, Los Angeles; M.A., University of the Pacific. George Fox University 1949-74.

Julia H. Hobbs, Professor of Christian Educational Ministries. B.A., Hope College; B.D., M.Th., Winona Lake School of Theology; Ph.D., University of Pittsburgh. George Fox University 1975-91.

David J. Howard, Associate Professor of Music. B.A., Simpson Bible College; B.A., M.A., San Francisco State College; D.M.A., Southern Baptist Theological Seminary. George Fox University 1968-85; 1988-2001

Patricia A. Landis, Professor of Education, Director of Undergraduate Teacher Education. B.A., Seattle Pacific University; M.A., University of Washington. George Fox University 1984-99.

Hector J. Munn, Professor of Chemistry. B.S., Seattle Pacific University; M.S., Ph.D., Oregon State University. George Fox University 1958-62; 1966-94.

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Al Stiefel, Professor of Counseling. B.A., Eastern Nazarene College; B.D., Nazarene Theological Seminary; S.T.M., Boston University School of Theology; Ph.D., Boston University.

Marjorie L. Weesner, Professor of Physical Education. B.S., George Fox University; M.Ed., Linfield College; Ed.D., University of Oregon. George Fox University 1953-54; 1963-93.

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University*

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ACADEMIC CALENDAR

UNIVERSITY ACADEMIC CALENDAR

August

All-campus fellowship	Thu
Faculty conference	Sun-Tue

Fall Semester

Residence halls open to new students, 1 p.m.	Fri
New student-parent convocation	Fri
New student sessions/registration/confirmation	Fri-Sun
Residence halls open to returning students, 10 a.m.	Sat
Registration/confirmation of returning students, 1 to 6 p.m.	Sat
Newberg campus classes begin, 8 a.m.	Mon
Honors convocation, 10 a.m.	Wed
Last day to register	Fri
Seminary classes begin	Tue
Serve Day	Wed
Last day to change registration	Fri
Seminary last day to change registration	Fri
Withdraw fee begins	Mon
Last day to exercise pass/no pass option	Fri
Midsemester holiday	Fri
Last day to withdraw from class	Fri
Thanksgiving vacation	Thu-Sun
Classes resume	Mon
Registration for spring semester and May Term/undergraduate	Mon-Fri
Registration for spring semester and summer/graduate	Mon-Fri
Fall semester undergraduate classes end, 5 p.m.	Fri
Study day	Mon
Final exam period	Tue-Fri
Residence halls close, 5 p.m.	Sat
Midyear commencement, 2 p.m.	Sat

Spring Semester

Residence halls open for new students, 1 p.m.	Sun
Residence halls open for returning students, 1 p.m.	Sun
Registration/confirmation of new students	Sun
Classes begin, 8 a.m.	Mon
Last day to register	Fri
Martin Luther King Jr. Day holiday	Mon
Last day to change registration	Fri
Withdraw fee begins	Mon
Last day to exercise pass/no pass option	Fri
Housing deposit due for upcoming year	Mon
Last day to withdraw from class	Fri
Spring vacation	Sat-Sun
Classes resume	Mon
Preregistration for fall & spring semesters/graduate	Mon-Fri
Preregistration for fall & spring semesters/undergraduate	Mon-Fri
Easter	Sun
Spring semester undergraduate classes end, 5 p.m.	Fri
Study day	Mon
Final exam period	Tue-Fri
Residence halls close, 5 p.m.	Sat
Graduate and Professional Studies commencement	Sat
Baccalaureate	Sat
Undergraduate commencement	Sat
Residence halls close for graduates, 5 p.m.	Sun

2001-02

Aug 16
Aug 19-21

2001-02

Aug 24
Aug 24
Aug 24-26
Aug 25
Aug 25
Aug 27
Aug 29
Aug 31
Sep 4
Sep 5
Sep 7
Sep 7
Sep 10
Sep 21
Oct 5
Nov 2
Nov 22-25
Nov 26
Nov 26-30
Dec 3-7
Dec 7
Dec 10
Dec 11-14
Dec 15
Dec 15

2001-02

Jan 13
Jan 13
Jan 13
Jan 14
Jan 18
Jan 21
Jan 25
Jan 28
Feb 8
Mar 11
Mar 15
Mar 23-31
Apr 1
Apr 1-5
Apr 8-12
Mar 31
Apr 26
Apr 29
Apr 30-May 3
May 4
May 4
May 4
May 4
May 5

2002-03

Aug 15
Aug 18-20

2002-03

Aug 30
Aug 30
Aug 30-Sep 1
Aug 31
Aug 31
Sep 2
Sep 4
Sep 6
Sep 3
Sep 11
Sep 13
Sep 6
Sep 16
Sep 27
Oct 11
Nov 8
Nov 28-Dec 1
Dec 2
Dec 2-6
Dec 9-13
Dec 13
Dec 16
Dec 17-20
Dec 21
Dec 21

2002-03

Jan 12
Jan 12
Jan 12
Jan 13
Jan 17
Jan 20
Jan 24
Jan 27
Feb 7
Mar 10
Mar 14
Mar 22-30
Mar 31
Mar 31-Apr 4
Apr 7-11
Apr 20
Apr 25
Apr 28
Apr 29-May 2
May 3
May 3
May 3
May 3
May 4

May Term

		2002	2003
Preregistration	Mon-Fri	Dec 3-7, 2001	Dec 2-6, 2002
Final registration	Tue	May 7	May 6
May Term begins	Tue	May 7	May 6
Last day to withdraw	Fri	May 10	May 9
May Term ends	Sat	May 25	May 24
Memorial Day holiday	Mon	May 27	May 26

Summer Semester

		2002	2003
Summer semester begins	Tue	May 28	May 27
Independence Day holiday	Thu/Fri	Jul 4	Jul 4
Last day to withdraw	Fri	Jul 26	Jul 25
Summer semester ends	Fri	Aug 9	Aug 8

Meal Service 2001-02

Fall Semester: Evening of Fri., Aug. 24, for new students, Sat., Aug. 25, for returning students, through breakfast Sat., Dec. 15
 Spring Semester: Evening of Sun., Jan. 13, through breakfast Sat., March 23, and evening of Sun., March 31, through breakfast Sat., May 4