



# **George Fox University**

**2001-2002 Catalog**

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## **Use of Catalog**

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**Undergraduate Admissions Office  
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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 edu

# PURPOSE

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## 2 PURPOSE

### **MISSION AND OBJECTIVES — STATEMENT OF FAITH**

### 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.

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## 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

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## 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.

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## 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.

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# PLACE



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  
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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.

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**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



**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.

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## 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.



### 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.

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## 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.

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## 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 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 re4sk Cmmons.5 - 4 tickets thr3titing ivare

**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 campus activities.

### 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

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# ACADEMIC PROGRAMS





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

**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





**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,

### 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, sties trt fcomTner C.. Set

**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

### 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 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



**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



**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.)

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

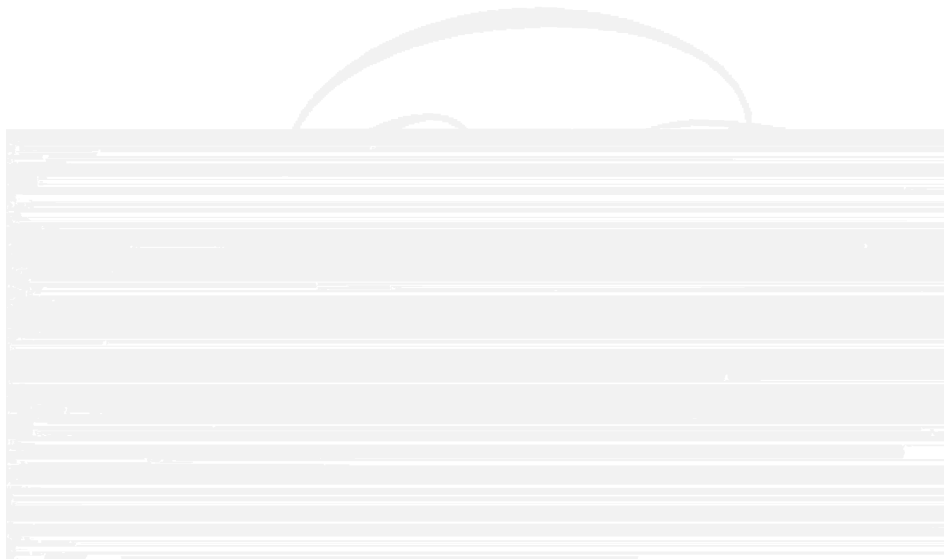
English as a Second Language  
Greek  
Japanese

#### Preprofessional Programs

Predental  
Prelaw  
Premedicine  
Prenursing  
Prepharmacy  
Prephysical therapy  
Preveterinary

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# UNDERGRADUATE PROGRAMS



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## ACCOUNTING

See Business and Economics, page 39.

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## APPLIED SCIENCE

See Engineering, page 45.

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## 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 Appli[T] -37.593 -8.8 -37383Illustration
ART 382	T



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## **ATHLETIC TRAINING**

See Health and Human Performance, page 48.

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## **BIBLICAL STUDIES**

See Religion, page 53.

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## **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

**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.

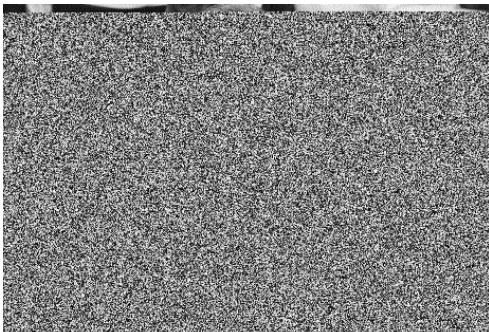
For accounting course descriptions, see page 64.

**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.

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

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## 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.

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 sub-

♦ 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

COM 230    Mass Media and Popular Culture  
COM 300    Communication Theory

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.

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## **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

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

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

**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.

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# 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	

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

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## **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 310 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.

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## **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 psychological research. (PSC 190 )Tj 37.335 0 TD (American Government)Tj





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

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.

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## SPANISH

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## 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.

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

## 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

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)

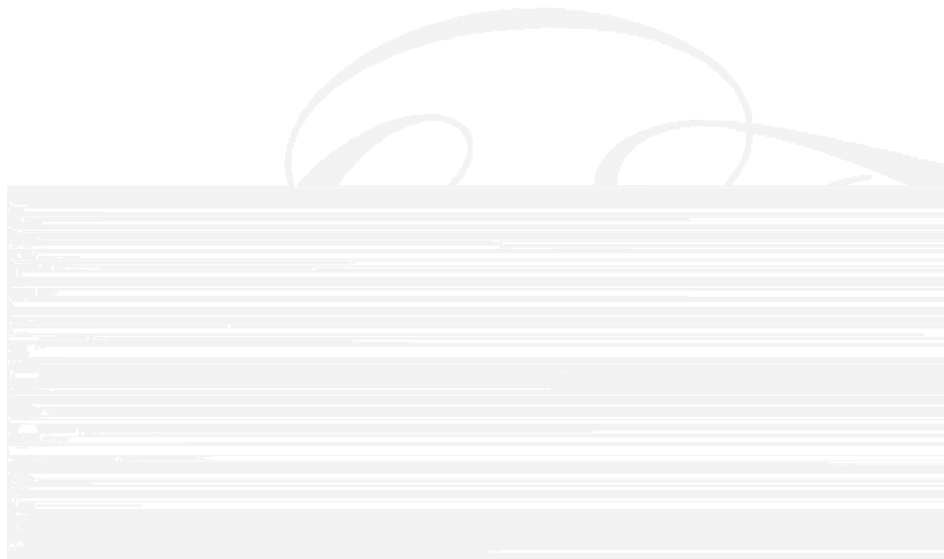
♦ Writing Core

WRI 200 Understanding Literature (3 hours)

WRI 230 Introduction to Journalism (3 hours)

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# UNDERGRADUATE COURSES



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Courses are listed alphabetically by program.

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## **ACCOUNTING**

Additional courses are listed under Business and Economics.

**ART 217 Art History Survey from 1600**

**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

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**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

**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



**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****CHM 130 Christian Discipling**

4 hours. A study of biblical principles of evangelism, nurturing, and teaching. This study encompasses the Christian educational responsibilities of the local church and parachurch agencies.

**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.



**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 pre-

**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.

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**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.

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**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

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## **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



**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 weekinters. Applications to bmys a



◆ 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 design of mechanical systems.

**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

mat are addressed during the editing process. Another goal is to improve

**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 controls, and nutritional value. Includes a laboratory

**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.

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**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.

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**GENERAL EDUCATION**

The following 85/4culty member, as deter

**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,

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## **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

**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**



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 See cuial-agenffered in presidential-election years.**

**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.

**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

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## 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.

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## 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.

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## 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.)

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## 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.

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## **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

**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.

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**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 flexi-

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## **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**



**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 classi

**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

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## 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.

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## 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.

**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 Con**

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## 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 the

**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.



## 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.



**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

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## **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

**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.

**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

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**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.

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## **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

**WRI 230 Introduction to Journalism**

3 hours. A course designed to give fundamental knooduction to Journalism



## 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.

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## 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.

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## 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.

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## 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.

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## 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.

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## 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.

**NON-FRESHMEN:** All students are expected to participate three hours of study for each hour



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## 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.

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## 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 eli-

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**ACADEMIC PROGRESS AND ELIGIBILITY**

## 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;

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# 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.

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## **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.

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## **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) [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.

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.

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.

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

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## **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.

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## **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.

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## **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.

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## **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.

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## **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 Tw (An earl Early Admie7on)Tj /F1 6. a lified hE Early Contacta s

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## **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.

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## **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.

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## **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.



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# FINANCES



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.

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## **FINANCIAL ARRANGEMENTS**

All charges made by the University are due prior to the beginning of each

◆ 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 avail

**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

#### ◆ 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 Brandenburgh 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. Recipients must be participating in the 7ent Fund



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

**FINANCIAL AID**Department 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.

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

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 T



**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.





#### ◆ 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 su5o 0sEuerbg6 TersTD 0.11o 0sEu

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# DIRECTORIES



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**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

**Roy L. 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. Byrtak**, 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.F



**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–

**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

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## **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



## UNIVERSITY ADMINISTRATION

**Bonnie J. Jerke**, M.A., Director of Career Services/Academic Success Program Director

**Merrill L. Johnson**, M.L.S., University Librarian

**Piper I. Jones**, B.A., Instructional Media Services

**Paul W. Kennedy**, Ph.D., Assessment Coordinator

**S. Lawrence Lebow**, Director of Administrative Computing

**Keri L. Macadaeg**, B.S., Executive Director of Institutional Technology

**Wayne Adams**, Ph.D., Director of the Graduate School of Clinical Psychology

**Sean M. McKay**, B.Th., Microcomputer Support Specialist

**Ronald L. Mock**, J.D., M.P.A., Director of the Center for Peace Learning, Director of Intensified Studies

**Glen T. Moran**, Ed.D., Director of the Boise Center

**Joshua G. Nauman**, B.A., Video Production Manager

**Ashjorn Osland**, Ph.D., Director of the Master of Business Administration Program

**Donna K. Phillips**, M.S., Director of Master of Arts in Teaching Daytime Program

**Alex A. Pia**, M.A., International Student Advisor

**Gary L. Railsback**, Ph.D., Director of Master of Education Program

**Sherrie K. Schulke**, M.S.W., M.Div., Director of the Social Work Program

**Marc Shelton**, Ed.D., Director of Administrative License Program

**Sherrie Sherrill**, B.A., Director of English Lab

**Dan L. Swanson**, B.S., System Administrator/Programmer Analyst

**Kathy F. Vancil**, M.A., Program Coordinator for Department of Teacher Education

**K. Mark Weinert**, M.Div., Ph.D., Associate Dean for Academic Affairs

**Bradley T. Weldon**, A.S.E.E., Academic Technology Developer

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**Karon L. Bell**, B.A., Assistant Vice President for Administration

**Andrew B. Dunn**, B.A., University Store Manager

**Sherrie G. Frost**, Director of Mail Services

**G. Michael Goins**, B.A., Vice President of Financial Affairs

**Steven E. Hammum**, Ph.D., Assistant Director of Safety/Lab Manager

**John F. Heitz**, Superintendent of Building Repair

**Virginia L. Hoover**, Superintendent of Custodial Services

**David D. Kelley**, M.B.A., Assistant Vice President for Finance

**Peggy L. Kilburg**, B.A., Director of Human Resources

**Larry A. Kintz**, Superintendent of Building Systems

**Laura E. Klaus**, Assistant Manager of the University Store

**Lisa S. Leslie**, B.A., Director of Event Services

**Steven M. Pfaff**, B.A., Senior Accountant

**Daniel A. Schutter**, B.S., Associate Director of Plant Services/Superintendent of New Construction

**Wilfred M. Smith**, Superintendent of Grounds

**John M. Stewart**, B.A., Portland Center Bookstore Manager

**Clyde G. Thomas**, B.A., Director of Plant Services

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**Norma L. Alley**, Assistant Director of University Fund

**Scott W. Box**, B.A., Assistant Director of Alumni and Parent Relations

**M. Blair Cash III**, M.Div., M.C.E., Sports Information Director

**Anita A. Cirulis**, B.A., Assistant Director of University Relations, Director of Publications

**Samuel A. Farmer**, B.A., Assistant to the President for Special Projects and Church Relations

**John W. Fortmeyer**, B.A., Director of Public Information

**Connie Ganz**, B.A., Editor

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**James E. Jackson**, B.S., Director of the University Fund

**Amy D. Karjala**, B.S., Director of Advancement Services

**Colin F. Miller**, B.A., Senior Graphic Designer

**Dana L. Miller**, M.A., Vice President for University Advancement

**Todd K. Newell**, B.S., Director of Estate and Planned Giving

**Danya G. Ochsner**, Director of Special Events and Projects

**Sherilyn L. Phillips**, Director of Alumni and Parent Relations

**Keri Radtke**, B.A., Graphic Designer

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**Sheila H. Bartlett**, B.A., Graduate Admission Counselor

**Terence E. Bell**, M.S., Director of Institutional Research

**Carrie J. Bohl**, B.A., Academic Advisor for Department of Professional Studies

**Gary D. Brown**, M.A., Graduate Admission Counselor

**Janet R. Cain**, B.S., Graduate Admission Counselor

**Matthew K. Clemons**, B.A. Associate Director of Financial Aid

**Holley S. Clough**, B.A., Director of Academic Advising for Professional Studies

**Andrea P. Cook**, Ph.D., Vice President for Enrollment Services

**Theresa D. Crawford**, Financial Aid Counselor

**Ryan W. Dougherty**, B.S., Undergraduate Admission Counselor

**Jennifer R. Getsinger**, Associate Director of Student Accounts

**Kathleen D. Grant**, B.A., Graduate and Professional Studies Admission Counselor  
**Jacqueline A. Gresham**, M.A., Director of Financial Aid  
**Marian J. Holzschuh**, B.A., Graduate and Professional Studies Admission Counselor, Boise  
**Meredith L. Jessup**, B.A., Undergraduate Admission Counselor  
**Monika R. Keller**, Financial Aid Counselor  
**Karin R. Klinger**, B.A., Assistant Director of Undergraduate Admission  
**Ginean L. Lewis**, B.A., Assistant Director of Undergraduate Admission  
**Melva R. Lloyd**, B.A., Graduate and Professional Studies Admission Counselor  
**Todd M. McCollum**, M.A., Director of Admission for Graduate and Professional Studies  
**Robert J. Molzahn**, B.A., Director of Recruiting for Graduate and Professional Studies  
**Carol A. Namburi**, B.A., Graduate and Professional Studies Admission Counselor  
**Amber A. Russell**, M.S., Graduate and Professional Studies Admission Counselor  
**Christine A. Schlarbaum**, B.S., Financial Aid Counselor  
**Dale E. Seippel**, M.Ed., Executive Director of Admission and Financial Aid  
**Timothy R. Stoltzfus**, M.A., Executive Director of Marketing and Admission for Graduate and Professional Studies  
**Jennifer M Swanborough**, B.A., Associate Director of Undergraduate Admission  
**Matthew W. Sweet**, B.S., Associate Director of Undergraduate Admission

#### Student Life

**William C. Buhrow Jr.**, Psy.D., Dean of Student Services  
**Cara J. Copeland**, B.A., Area Coordinator  
**Andrea M. Crenshaw**, B.A., Director of Outreach and Discipleship  
**Daryl Dixon**, M.Div., Director of Multicultural Affairs  
**Sharra I. Durham**, M.S., Dean of Students  
**Michael J. Hampton**, M.A., Associate Director of Career Services  
**Bonnie J. Jerke**, M.A., Director of Career Services/Academic Success Program Director

**Gregg T. Lamm**, M.Div., Campus Pastor/Director of Campus Ministries  
**Bradley A. Lau**, M.A., M.S., Vice President for Student Life  
**Becky F. Meenderinck**, B.A., Area Coordinator  
**Miriam Mendez**, M.Div., Assistant Director of Graduate Student Services and Assessment Specialist for the Seminary  
**William J. Mulholland**, B.A., Director of Security  
**Valorie J. Orton**, B.S.N., Nurse  
**Mark A. Pothoff**, M.Ed., Associate Dean of Students/Director of Residence Life  
**Marta O. Sears**, B.A., Multicultural Advisor  
**S. Israel Silva**, Security Officer  
**Rob W. Simpson**, B.A., Area Coordinator  
**John I. Smith**, B.S., Security Officer  
**Kimberly S. Stave**, B.A., Area Coordinator and Housing Assistant

**Richard D. Evans**, Happy Valley, Oregon, real estate  
**C.W. "Bill" Field Jr.**, Vancouver, Washington, gas company executive  
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**Peggy Y. Fowler**, Portland, Oregon, utility executive  
**Keith C. Galitz**, Lake Oswego, Oregon, corporate executive  
**Gilbert S. George**, Kelso, Washington, minister  
**Fred S. Gregory**, Seattle, Washington, non-profit agency executive  
**Dale W. Hadley**, Portland, Oregon, investments executive  
**Marla R. Heikkala**, Vancouver, Washington, attorney  
**André W. Iseli**, Gresham, Oregon, corporate owner/executive  
**Jake Lautenbach Jr.**, Hillsboro, Oregon, landscaping contractor  
**John R. Lemmons**, Kelso, Washington, lumber company executive  
**Margaret E. Lemmons**, Newberg, Oregon, educator (retired)  
**John K. Lim**, Gresham, Oregon, business owner/executive  
**Roger A. Martell**, Boise, Idaho, investments executive  
**Judy A. Miller**, Tigard, Oregon, corporate officer  
**Roger M. MinthorneMiller**

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**May Term**

Preregistration .....	Mon-Fri	<b>2002</b>	Dec 3-7, 2001	<b>2003</b>	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**

Summer semester begins .....	Tue	<b>2002</b>	May 28	<b>2003</b>	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